



300 E. Mineral Ave., Suite 10  
 Littleton, CO 80122-2631  
 303/781-8211 303/781-1167 Fax

August 2, 2004

Fluid Minerals Group  
 Bureau of Land Management  
 Vernal Field Office  
 170 South 500 East  
 Vernal, Utah 84078

RE: Application for Permit to Drill—Dominion Exploration & Production, Inc.  
 HCU 14-34F, *Surface Location:* 829' FSL, 1,958' FEL, SW/4 SE/4,  
*Target Location:* 700' FSL, 1,950' FWL, SE/4 SW/4,  
 Section 34, T10S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of Dominion Exploration & Production, Inc. (Dominion), Buys & Associates, Inc. respectfully submits the enclosed original and two copies of the *Application for Permit to Drill (APD)* for the above referenced directional well. Included with the APD is the following supplemental information:

- Exhibit "A" - Survey plats, layouts and photos of the proposed well site;
- Exhibit "B" - Proposed location maps with access and utility corridors;
- Exhibit "C" - Production site layout;
- Exhibit "D" - Drilling Plan with Directional Drilling Proposal;
- Exhibit "E" - Surface Use Plan;
- Exhibit "F" - Typical BOP and Choke Manifold diagram.

Please accept this letter as Dominion's, written request for confidential treatment of all information contained in and pertaining to this application.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Carla Christian of Dominion at 405-749-5263 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*  
 Don Hamilton  
 Agent for Dominion

cc: Diana Whitney, Division of Oil, Gas and Mining  
 Amanda Mart, Bureau of Indian Affairs  
 Carla Christian, Dominion  
 Marty Buys, Buys & Associates, Inc.

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 DIV. OF OIL, GAS & MINING

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

001

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Dominion Exploration & Production, Inc.

3. ADDRESS AND TELEPHONE NO.

14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)

At surface

829' FSL, 1,958' FEL

SW/4 SE/4

At proposed prod. zone

700' FSL, 1,950' FWL

SE/4 SW/4

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

13.18 miles southeast of Ouray, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

700'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40 acres

18. DISTANCE FROM PROPOSED  
LOCATION TO NEAREST WELL,  
DRILLING, COMPLETED, OR  
APPLIED FOR, ON THIS LEASE, FT.

25'

19. PROPOSED DEPTH

8,050'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,340' GR

22. APPROX. DATE WORK WILL START\*

January 1, 2005

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48#	500'	450 sks "C" Cement with additives (see Drilling Plan)
12-1/4"	9-5/8" J-55 LT&C	36#	2,800'	300 sacks Lead and 390 sacks Tail (see Drilling Plan)
7-7/8"	5-1/2" Mav-80 LT&C	17#	8,050'	90 sacks Lead and 600 sacks Tail (see Drilling Plan)

Bond Information:

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 0330

Other Information:

Drilling Plan and Surface Use Plan are attached.

Dominion requests that this complete application for permit to drill be held confidential.

Surf. 615557 X 39.89901  
4417213 Y -109.64828

BHL 615137 X 39.89845  
4417145 Y -109.65321

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DIV. OF OIL, GAS & MINING

Federal Approval of this  
Action is Necessary

ORIGINAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Don Hamilton

Don Hamilton

TITLE

Agent for Dominion

DATE

August 2, 2004

(This space for Federal or State office use)

PERMIT NO.

43-047-35875

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL IF ANY:

APPROVED BY

Bradley G. Hill

TITLE

BRADLEY G. HILL  
ENVIRONMENTAL SCIENTIST III

DATE

08-17-04

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

LATITUDE = 39°53'56.04" (39.898900)  
LONGITUDE = 109°38'55.94" (109.648872)

## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** HCU 14-34F  
SHL: 829' FSL & 1958' FEL Section 34-10S-20E  
BHL: 700' FSL & 1950' FWL Section 34-10S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah

2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth</u>
Wasatch Tongue	3,855'
Uteland Limestone	4,190'
Wasatch	4,330'
Chapita Wells	5,150'
Uteland Buttes	6,300'
Mesaverde	7,150'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Wasatch Tongue	3,855'	Oil
Uteland Limestone	4,190'	Oil
Wasatch	4,330'	Gas
Chapita Wells	5,150'	Gas
Uteland Buttes	6,300'	Gas
Mesaverde	7,150'	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	13-3/8"	48.0 ppf	H-40	STC	0'	500'	17-1/2"
Intermediate	9-5/8"	36.0 ppf	J-55	LTC	0'	2,800'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,050'	7-7/8"

5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized.

Intermediate hole: To be drilled using a diverter stack with rotating head to divert flow from rig floor.

Production hole: Prior to drilling out the intermediate casing shoe, 3,000 psi or greater BOP equipment will be installed.

The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' - 500'	8.4	Air foam mist, no pressure control
500' - 2,800'	8.6	Fresh water, rotating head and diverter
2,800' - 8,050'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to intermediate casing.
- The gamma ray will be left on to record from total depth to intermediate casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to intermediate casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500-2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H<sub>2</sub>S gas.

#### 11. WATER SUPPLY

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### 12. CEMENT SYSTEMS

##### a. Surface Cement:

Drill 17-1/2" hole to 500' and cement 13-3/8" to surface with 450 sks class "C" cement with 2% CaCl<sub>2</sub> and 1/4 #/sk. Poly-E-Flakes (volume includes 40% excess). Top out if necessary with Top Out cement listed below.

##### b. Intermediate Casing Cement:

- Drill 12-1/4" hole to 2,800'±, run and cement 9-5/8" to surface.
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement to surface not required due to surface casing set deeper than normal.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	300	0'-2,000'	11.0 ppg	3.82 CFS	658 CF	1,152 CF	75%
Tail	390	2,000'-2,800'	15.6 ppg	1.20 CFS	268 CF	469 CF	75%

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.82 cf/sack      Slurry weight: 11.00 #/gal.  
Water requirement: 22.95 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
Pump Time: 1 hr. 5 min. @ 90 °F.  
Compressives @ 95 °F: 24 Hour is 4,700 psi

##### c. Production Casing Cement:

- Drill 7-7/8" hole to 8,050'±, run and cement 5 1/2".
- Cement interface is at 3,700', which is typically 500'-1,000' above shallowest pay.
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 3% KCL.

Type	Sacks	Interval	Density	Yield	Hole Volume	Cement Volume	Excess
Lead	90	3,700'-4,500'	11.5 ppg	3.12 CFS	139 CF	277 CF	100%
Tail	600	4,500'-8,050'	13.0 ppg	1.75 CFS	525 CF	1050 CF	100%

Note: Caliper will be run to determine exact cement volume.

Lead Mix: Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
Slurry yield: 3.12 cf/sack      Slurry weight: 11.60 #/gal.  
Water requirement: 17.71 gal/sack  
Compressives @ 130°F: 157 psi after 24 hours

Tail Mix: Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
Slurry yield: 1.75 cf/sack      Slurry weight: 13.00 #/gal.  
Water requirement: 9.09 gal/sack  
Compressives @ 165°F: 905 psi after 24 hours

#### 13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS

Starting Date: January 01, 2005  
Duration: 14 Days

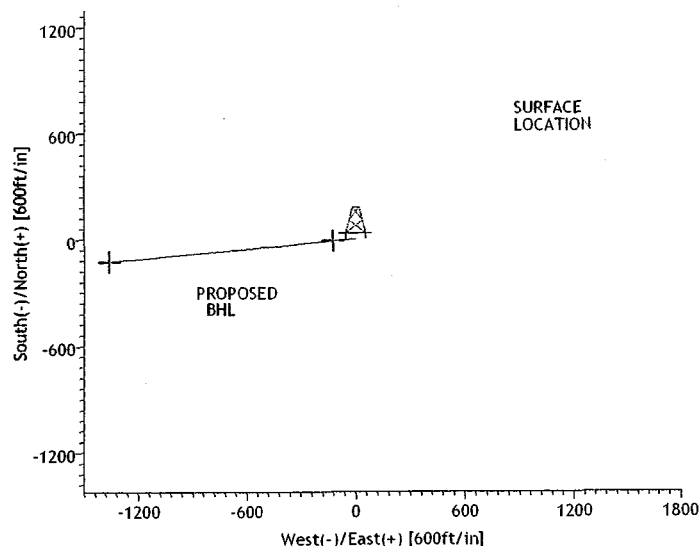
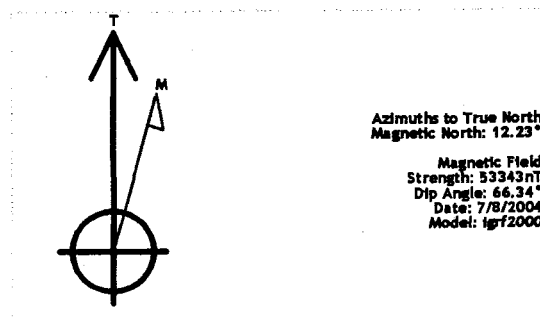
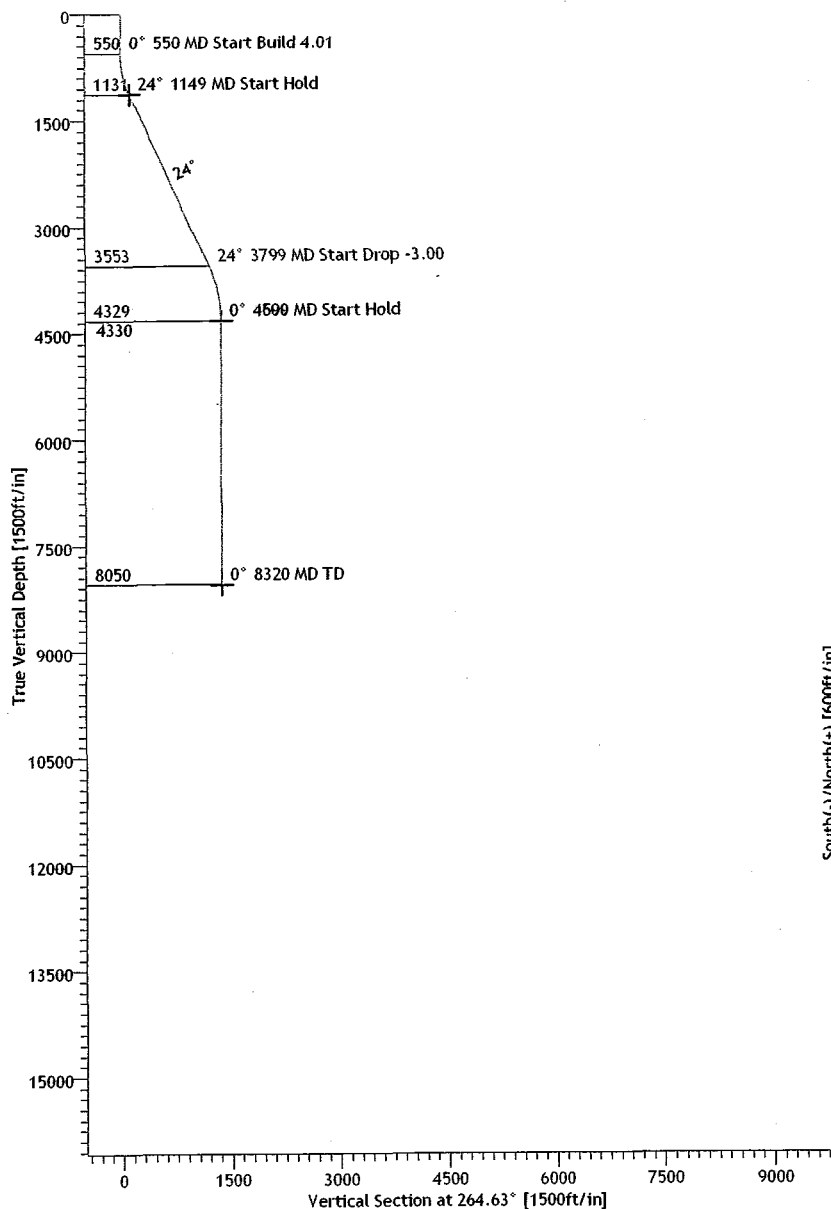
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**Ryan** The leader in  
UNDERGROUND INTELLIGENCE™

**DOMINION**

HCU 14-34F  
UINTAH COUNTY  
UTAH



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	264.63	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	264.63	550.00	0.00	0.00	0.00	0.00	0.00	
3	1148.50	24.00	264.63	1131.15	-11.56	-122.99	4.01	264.63	123.53	
4	3799.05	24.00	264.63	3552.55	-112.45	-1196.33	0.00	0.00	1201.60	
5	4599.05	0.00	264.63	4329.36	-127.91	-1360.72	3.00	180.00	1366.72	
6	4599.69	0.00	264.63	4330.00	-127.91	-1360.72	0.00	0.00	1366.72	TARGET2
7	8319.69	0.00	264.63	8050.00	-127.91	-1360.72	0.00	264.63	1366.72	

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# Ryan Energy Planning Report

Company: DOMINION	Date: 7/9/2004	Time: 10:21:16	Page: 1
Field: UTAH	Co-ordinate (NE) Reference: Site: UINTAH COUNTY, True North		
Site: UINTAH COUNTY	Vertical (TVD) Reference: SITE 0.0		
Well: HCU 14-34F	Section (VS) Reference: Well (0.00N,0.00E,264.63Azi)		
Wellpath: ORIGINAL HOLE	Plan: PLANNED WELL		

Field: UTAH

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
Coordinate System: Site Centre  
Geomagnetic Model: igrf2000

Site: UINTAH COUNTY

Site Position:	Northing: 7266643.10 ft	Latitude: 40 14 58.000 N	
From: Geographic	Easting: 2233340.22 ft	Longitude: 109 22 32.000 W	
Position Uncertainty: 0.00 ft		North Reference: True	
Ground Level: 0.00 ft		Grid Convergence: 1.36 deg	

Well: HCU 14-34F

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 7266643.10 ft	Latitude: 40 14 58.000 N	
+E/-W 0.00 ft	Easting: 2233340.22 ft	Longitude: 109 22 32.000 W	
Position Uncertainty: 0.00 ft			

Wellpath: ORIGINAL HOLE

Current Datum: SITE  
Magnetic Data: 7/8/2004  
Field Strength: 53343 nT  
Vertical Section: Depth From (TVD)  
ft

Height 0.00 ft  
+N/-S  
ft

Drilled From: Surface  
Tie-on Depth: 0.00 ft  
Above System Datum: Mean Sea Level  
Declination: 12.23 deg  
Mag Dip Angle: 66.34 deg  
+E/-W  
ft  
Direction  
deg

8050.00

0.00

0.00

264.63

## Plan Section Information

MD	TD	ASMC	TVD	NAS	PA	DPS	RA	Turn	TFO	Target
ft	ft	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	264.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	264.63	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
1148.50	24.00	264.63	1131.15	-11.56	-122.99	4.01	4.01	0.00	264.63	
3799.05	24.00	264.63	3552.55	-112.45	-1196.33	0.00	0.00	0.00	0.00	
4599.05	0.00	264.63	4329.36	-127.91	-1360.72	3.00	-3.00	0.00	180.00	
4599.69	0.00	264.63	4330.00	-127.91	-1360.72	0.00	0.00	0.00	0.00	TARGET2
8319.69	0.00	264.63	8050.00	-127.91	-1360.72	0.00	0.00	0.00	264.63	

**CONFIDENTIAL**



**SURFACE USE PLAN**  
**CONDITIONS OF APPROVAL**

*Attachment for Permit to Drill*

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** HCU 14-34F  
SHL: 829' FSL & 1958' FEL Section 34-10S-20E  
BHL: 700' FSL & 1950' FWL Section 34-10S-20E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The onsite inspection for the referenced well was conducted on Friday, July 25, 2004 at approximately 12:50 pm. In attendance at the onsite inspection were the following individuals:

Ken Sechrest	Foreman	Dominion E & P, Inc.
Kermit Wapsock	Oil and Gas Technician	Energy and Minerals
Kim Fritz	Environmental Protection Spec.	Uintah & Ouray Agency - BIA
David Weston	Professional Engineer	Uintah Engineering and Land Surveying
Harley Jackson	Foreman	Jackson Construction
Erik LaRose	Foreman	LaRose Construction
Don Hamilton	Permitting Agent	Buys & Associates, Inc.

1. Existing Roads:

- a. The proposed well site is located approximately 13.18 miles southeast of Ouray, UT.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Hill Creek Unit. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way is not anticipated for the access road or utility corridor since both are located within the existing federal unit boundary.

2. Planned Access Roads:

- a. From the proposed HCU 16-34F an access is proposed trending east approximately 1,020' to the proposed well site. The access consists of entirely new disturbance and crosses no drainages. A road design plan is not anticipated at this time.
- b. The proposed access road will consist of a 14' travel surface within a 30' disturbed area.
- c. Proposed access will utilize entirely Ute Indian Tribe lands in which a right-of-way is being approved at this time. BLM approval to construct and utilize the proposed access road is requested with this application.
- d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.
- e. No turnouts are proposed since the access road is only 1,020' long and adequate site distance exists in all directions.
- f. No culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- g. No surfacing material will come from federal or Indian lands.
- h. No gates or cattle guards are anticipated at this time.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. (1989).
- k. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. Following is a list of existing wells within a one mile radius of the proposed well:
  - i. Water wells                      None
  - ii. Injection wells                  None
  - iii. Disposal wells                  None
  - iv. Drilling wells                      None
  - v. Temp. shut-in wells              None
  - vi. Producing wells                  2
  - vii. Abandon wells                  1
- b. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown to match the standard environmental colors. All facilities will be painted within six months of installation.

Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.
- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A gas pipeline is associated with this application and is being applied for at this time. The proposed gas pipeline corridor will leave the southeast side of the well site and traverse 1,020' east to the proposed 4" pipeline corridor at the HCU 16-34F.
- i. The gas pipeline will be a 4" steel surface line within a 20' wide utility corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline construction. A new pipeline length of approximately 1,020' is associated with this well.
- j. Dominion intends on installing the pipeline on the surface by welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. Dominion intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the southwest side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved Dominion disposal well for disposal.
- k. **Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.**
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the southeast.
- c. The pad and road designs are consistent with BLM and Tribal specification
- d. A pre-construction meeting with responsible company representative, contractors, Tribal Representatives and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size of 355' X 200'; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- k. Pits will remain fenced until site cleanup.
- l. **The existing range fence that presently crosses the proposed well pad will be rerouted to the south to avoid the well pad.**
- m. The blooie line will be located at least 100 feet from the well head.
- n. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. The Operator will control noxious weeds along access road use authorizations, pipeline route

authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On Ute Tribal and BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.

- c. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.
- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- e. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BIA. The BIA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Ute Indian Tribe under the management of the Bureau of Indian Affairs – Uintah and Ouray Agency, P.O. Box 130, 988 South 7500 East, Ft. Duchesne, Utah 84026
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

- a. AIA Archaeological has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by AIA Archaeological.
- b. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.

13. Operator's Representative and Certification

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Roosevelt)	Mitchiel Hall	1-435-722-4521
Company Representative (Oklahoma)	Carla Christian	1-405-749-5263
Agent for Dominion	Don Hamilton	1-435-637-4075

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exists; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dominion Exploration & Production, Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Dominion's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Don Hamilton Date: 8-2-2004

# DOMINION EXPLR. & PROD., INC.

## LOCATION LAYOUT FOR

HCU #15-34F & #14-34F

SECTION 34, T10S, R20E, S.L.B.&M.

SW 1/4 SE 1/4 Topsoil Stockpile

F-9.2'  
El. 28.9'

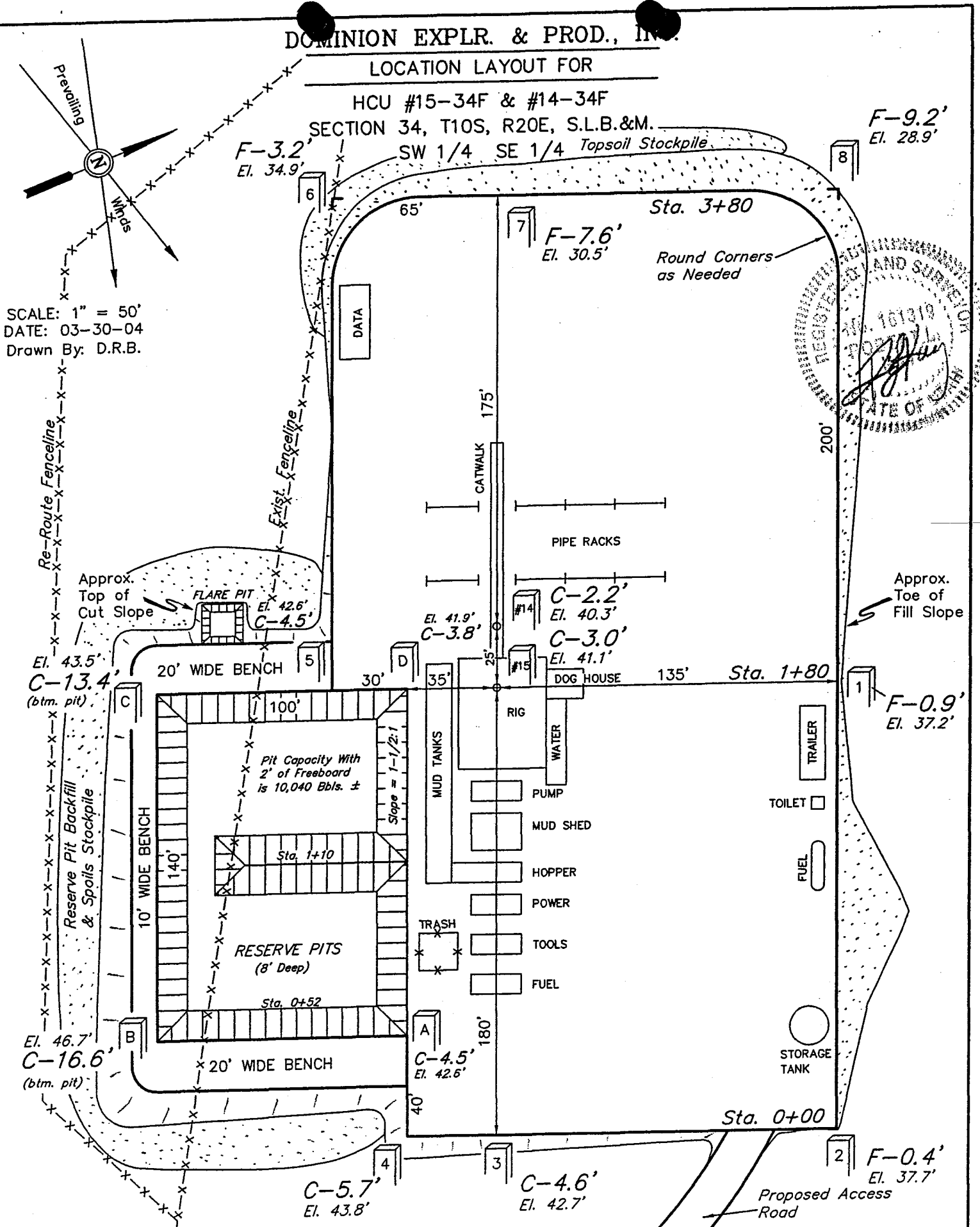
F-3.2'  
El. 34.9'

F-7.6'  
El. 30.5'

Sta. 3+80

Round Corners  
as Needed

SCALE: 1" = 50'  
DATE: 03-30-04  
Drawn By: D.R.B.



Elev. Ungraded Ground at #15-34F Location Stake = 5341.1'  
Elev. Graded Ground at #15-34F Location Stake = 5338.1'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



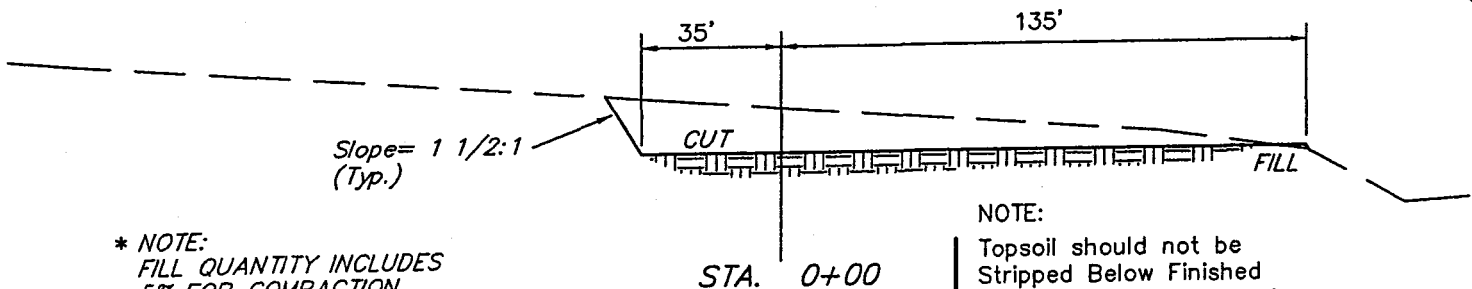
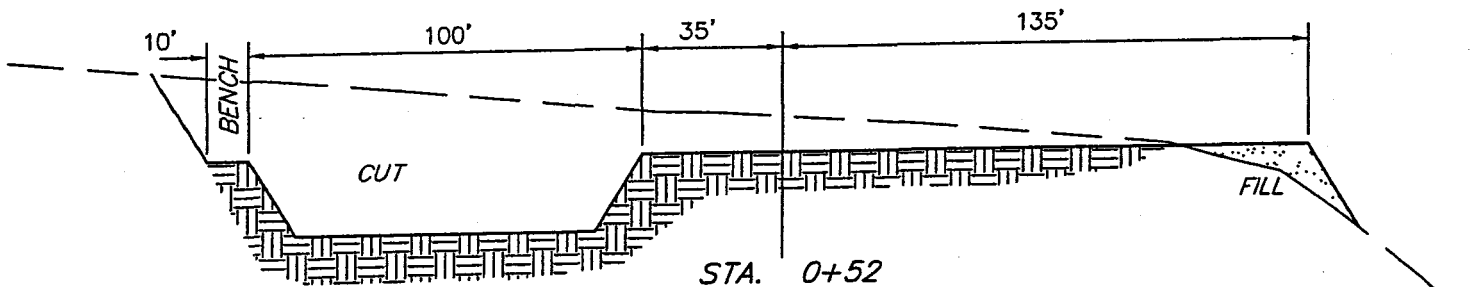
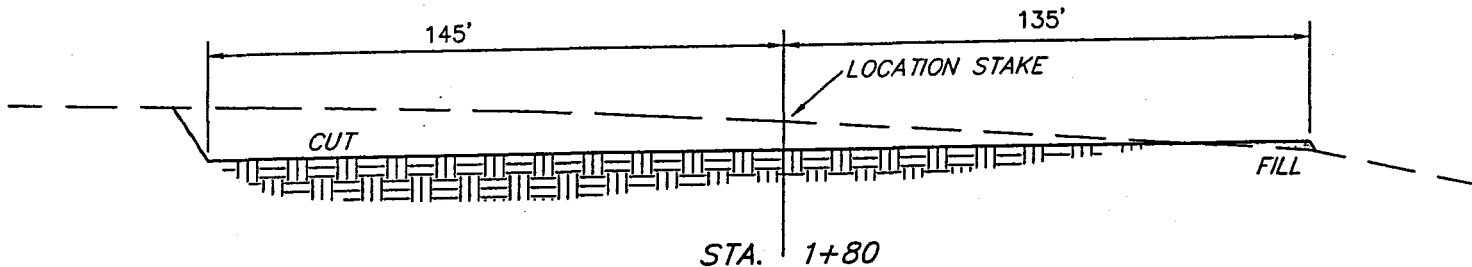
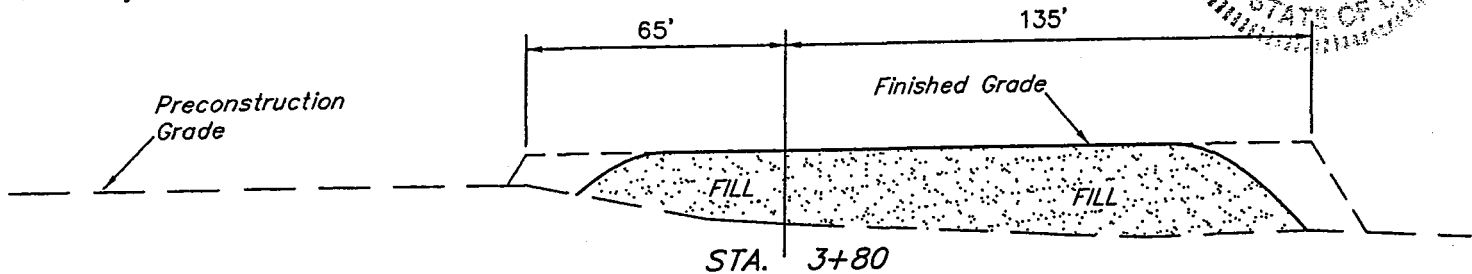
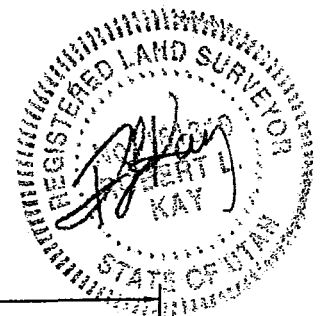
# DOMINION EXPLR. & PROD., INC.

## TYPICAL CROSS SECTIONS FOR

HCU #15-34F & #14-34F  
SECTION 34, T10S, R20E, S.L.B.&M.  
SW 1/4 SE 1/4

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 03-30-04  
Drawn By: D.R.B.



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

NOTE:  
Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 3,880 Cu. Yds.  
Remaining Location = 8,730 Cu. Yds.  
TOTAL CUT = 12,610 CU.YDS.  
FILL = 7,170 CU.YDS.

EXCESS MATERIAL = 5,440 Cu. Yds.  
Topsoil & Pit Backfill = 5,440 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# DOMINION EXPLR. & PROD., INC.

HCU #15-34F & HCU #14-34F

LOCATED IN UINTAH COUNTY, UTAH

SECTION 34, T10S, R20E, S.L.B.&M.

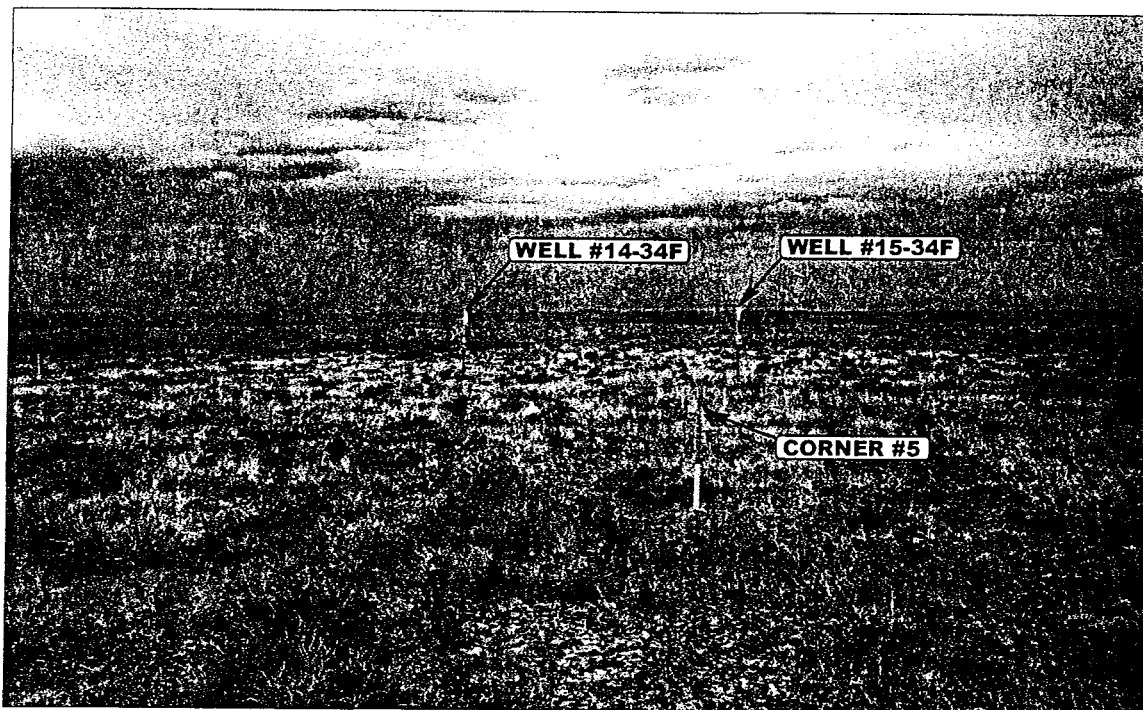


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHEASTERLY

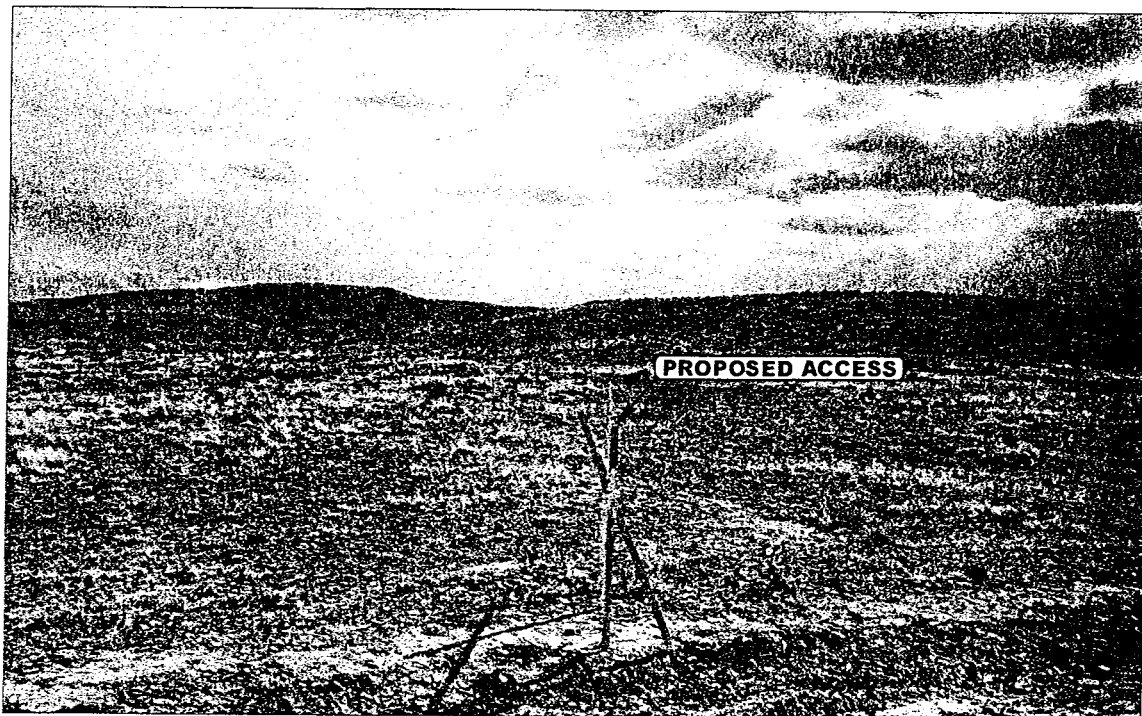


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS  
FOR THE HCU #16-34F

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**E/S**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

03  
MONTH

27  
DAY

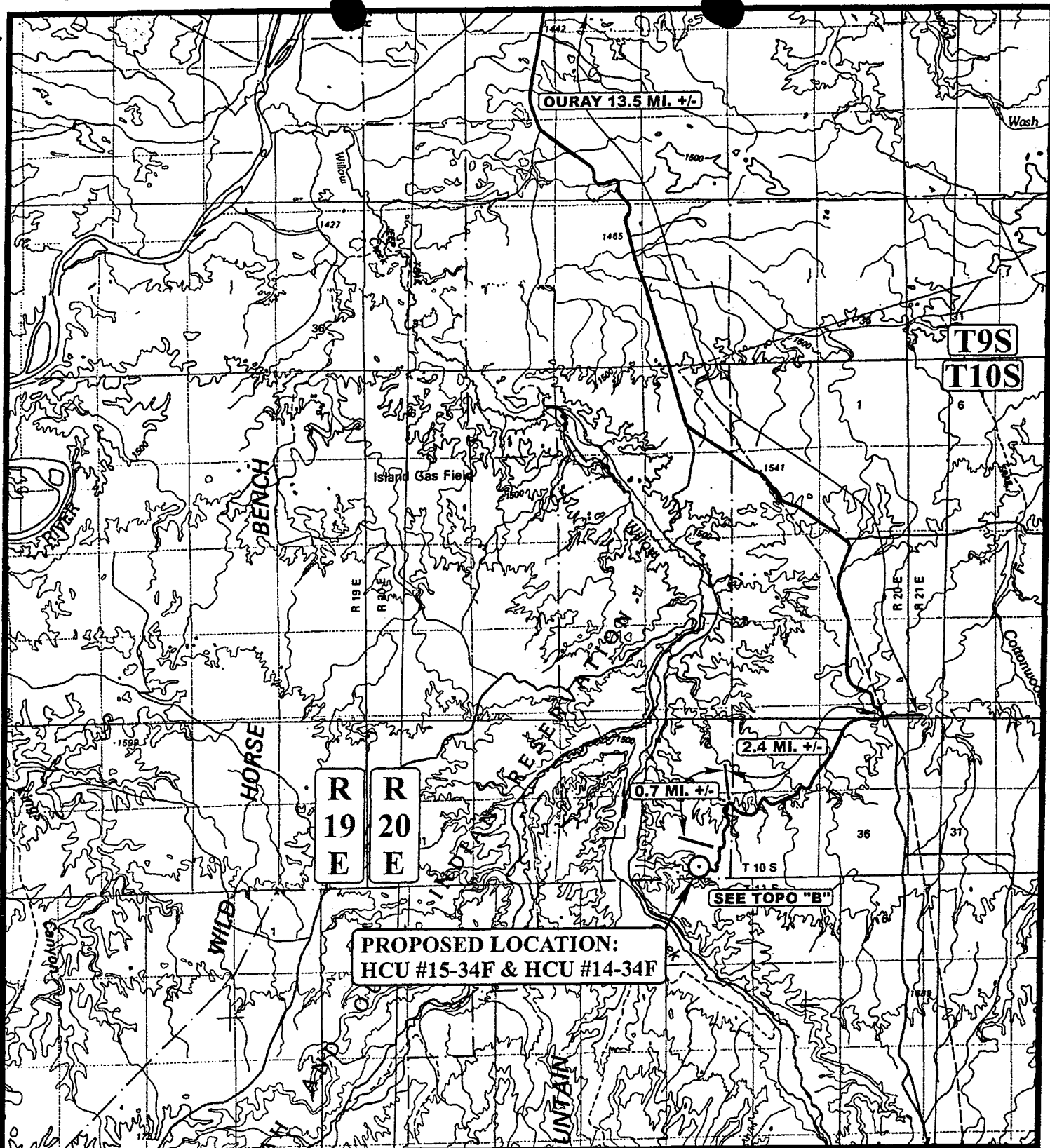
04  
YEAR

PHOTO

TAKEN BY: B.B.

DRAWN BY: P.M.

REVISED: 00-00-00



# LEGEND:

○ PROPOSED LOCATION

## DOMINION EXPLR. & PROD., INC.

HCU #15-34F & HCU #14-34F  
SECTION 34, T10S, R20E, S.L.B.&M.  
SW 1/4 SE 1/4



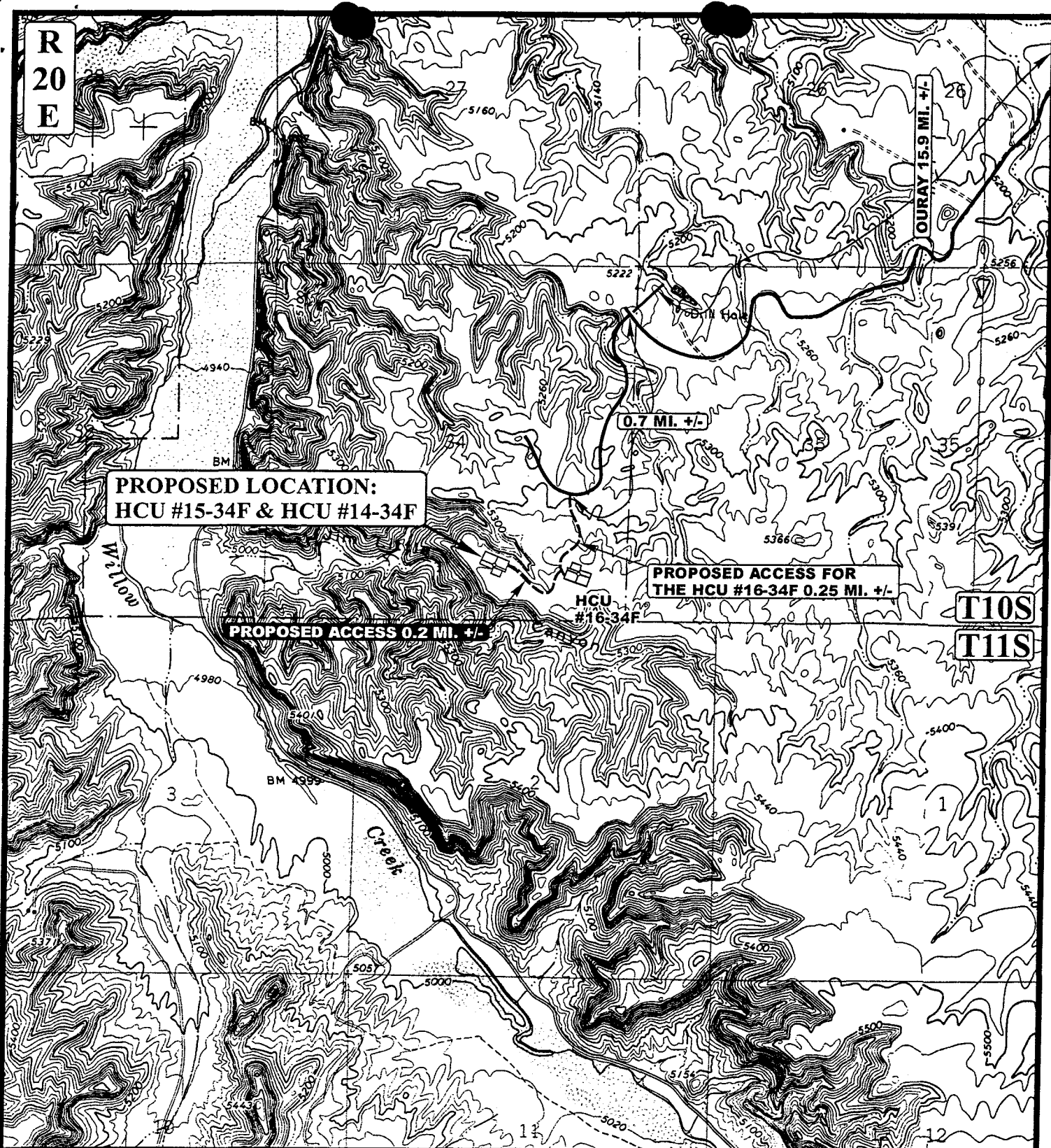
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

03 27 04  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00





# **LEGEND:**

————— EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD



**DOMINION EXPLR. & PROD., INC.**

**HCU #15-34F & HCU #14-34F**  
**SECTION 34, T10S, R20E, S.L.B.&M.**  
**SW 1/4 SE 1/4**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**03** **27** **04**  
 MONTH DAY YEAR

**SCALE: 1" = 2000'** **DRAWN BY: P.M.** **REVISED: 00-00-00**

**B**  
**TOPO**

**R 20 E**

**26**

**HCU #1-33**

**HCU #3-34F**

**UU #2**

**BM 4399**

**Creek**

**W. 1000**

**PROPOSED LOCATION:  
HCU #15-34F & HCU #14-34F**

**T10S**

**T11S**

**26**

**12**

**R 20 E**

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**HCU #1-33**

**HCU #3-34F**

**UU #2**

**BM 4399**

**Creek**

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**T11S**

**PROPOSED LOCATION:  
HCU #15-34F & HCU #14-34F**

**R 20 E**

**26**

**HCU #1-33**

**HCU #3-34F**

**UU #2**

**BM 4399**

**Creek**

**W. 1000**

**PROPOSED LOCATION:  
HCU #15-34F & HCU #14-34F**

**T10S**

**T11S**

**26**

**12**

**R 20 E**

**26**

**HCU #1-33**

**HCU #3-34F**

**UU #2**

**BM 4399**

**Creek**

**W. 1000**

**PROPOSED LOCATION:  
HCU #15-34F & HCU #14-34F**

**T10S**

**T11S**

**26**

**12**

**LEGEND:** **DOMINION EXPLR. & PROD., INC.**

- ✂ DISPOSAL WELLS      ✂ WATER WELLS  
 ● PRODUCING WELLS      ● ABANDONED WELLS  
 ● SHUT IN WELLS      ● TEMPORARILY ABANDONED
- N
- HCU #15-34F & HCU #14-34F  
 SECTION 34, T10S, R20E, S.L.B.&M.  
 SW 1/4 SE 1/4

**LEGEND:** **DOMINION EXPLR. & PROD., INC.**

✂ DISPOSAL WELLS      ✂ WATER WELLS  
 ● PRODUCING WELLS      ● ABANDONED WELLS  
 ● SHUT IN WELLS      ● TEMPORARILY ABANDONED

N

HCU #15-34F & HCU #14-34F  
 SECTION 34, T10S, R20E, S.L.B.&M.  
 SW 1/4 SE 1/4



	<b>U E S</b> <b>Uintah Engineering &amp; Land Surveying</b> <b>85 South 200 East Vernal, Utah 84078</b> <b>(435) 789-1017 * FAX (435) 789-1813</b>	<b>T O P O G R A P H I C</b> <b>M A P</b>	<b>03</b> MONTH	<b>27</b> DAY	<b>04</b> YEAR	<b>C</b> <b>TOPO</b>
	<b>SCALE: 1" = 2000'</b>		<b>DRAWN BY: P.M.</b>		<b>REVISED: 00-00-00</b>	

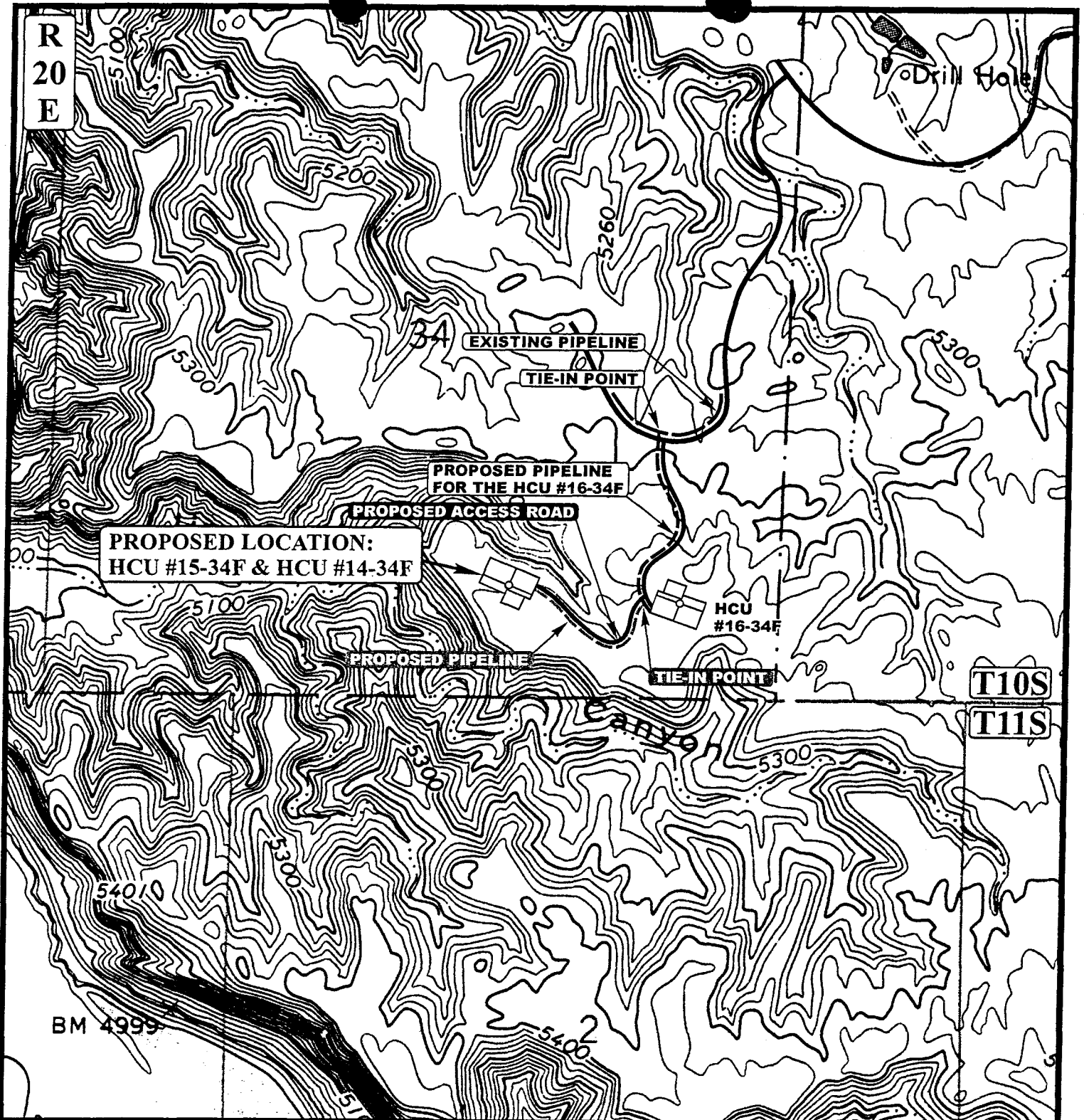
	<b>U E S</b> <b>Uintah Engineering &amp; Land Surveying</b> <b>85 South 200 East Vernal, Utah 84078</b> <b>(435) 789-1017 * FAX (435) 789-1813</b>	<b>T O P O G R A P H I C</b> <b>M A P</b>	<b>03</b> MONTH	<b>27</b> DAY	<b>04</b> YEAR	<b>C</b> <b>TOPO</b>
	<b>SCALE: 1" = 2000'</b>		<b>DRAWN BY: P.M.</b>		<b>REVISED: 00-00-00</b>	

	<b>U E S</b> <b>Uintah Engineering &amp; Land Surveying</b> <b>85 South 200 East Vernal, Utah 84078</b> <b>(435) 789-1017 * FAX (435) 789-1813</b>	<b>T O P O G R A P H I C</b> <b>M A P</b>	<b>03</b> MONTH	<b>27</b> DAY	<b>04</b> YEAR	<b>C</b> <b>TOPO</b>
	<b>SCALE: 1" = 2000'</b>		<b>DRAWN BY: P.M.</b>		<b>REVISED: 00-00-00</b>	

	<b>U E S</b> <b>Uintah Engineering &amp; Land Surveying</b> <b>85 South 200 East Vernal, Utah 84078</b> <b>(435) 789-1017 * FAX (435) 789-1813</b>	<b>T O P O G R A P H I C</b> <b>M A P</b>	<b>03</b> MONTH	<b>27</b> DAY	<b>04</b> YEAR	<b>C</b> <b>TOPO</b>
	<b>SCALE: 1" = 2000'</b>		<b>DRAWN BY: P.M.</b>	<b>REVISED: 00-00-00</b>		

	<b>TOPOGRAPHIC</b> <b>M A P</b>	<b>03</b> MONTH	<b>27</b> DAY	<b>04</b> YEAR	<div style="font-size: 48px; font-weight: bold; margin: 0;">C</div> <div style="font-weight: bold; margin: 0;">TOPO</div>
	SCALE: 1" = 2000'	DRAWN BY: P.M.	REVISED: 00-00-00		





APPROXIMATE TOTAL PIPELINE DISTANCE = 1,020' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

**DOMINION EXPLR. & PROD., INC.**

HCU #15-34F & HCU #14-34F  
SECTION 34, T10S, R20E, S.L.B.&M.  
SW 1/4 SE 1/4



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC	03	27	04
MAP	MONTH	DAY	YEAR
SCALE: 1" = 1000'	DRAWN BY: P.M.	REVISED: 00-00-00	

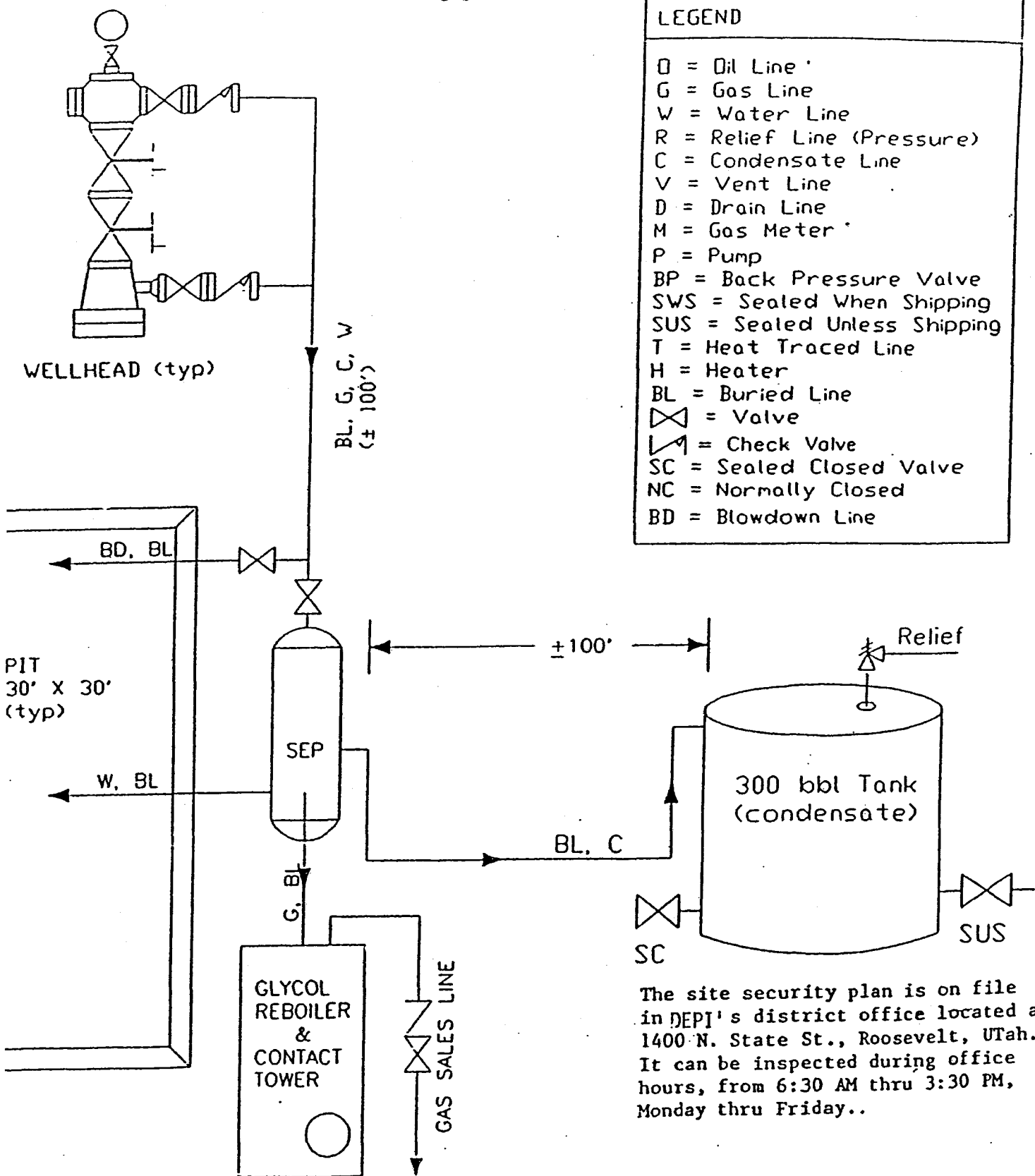


DOMINION EXPLR. & PROD., INC.  
HCU #15-34F & HCU #14-34F  
SECTION 34, T10S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 13.5 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE HCU #16-34F TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.05 MILES.

CONFIDENTIAL



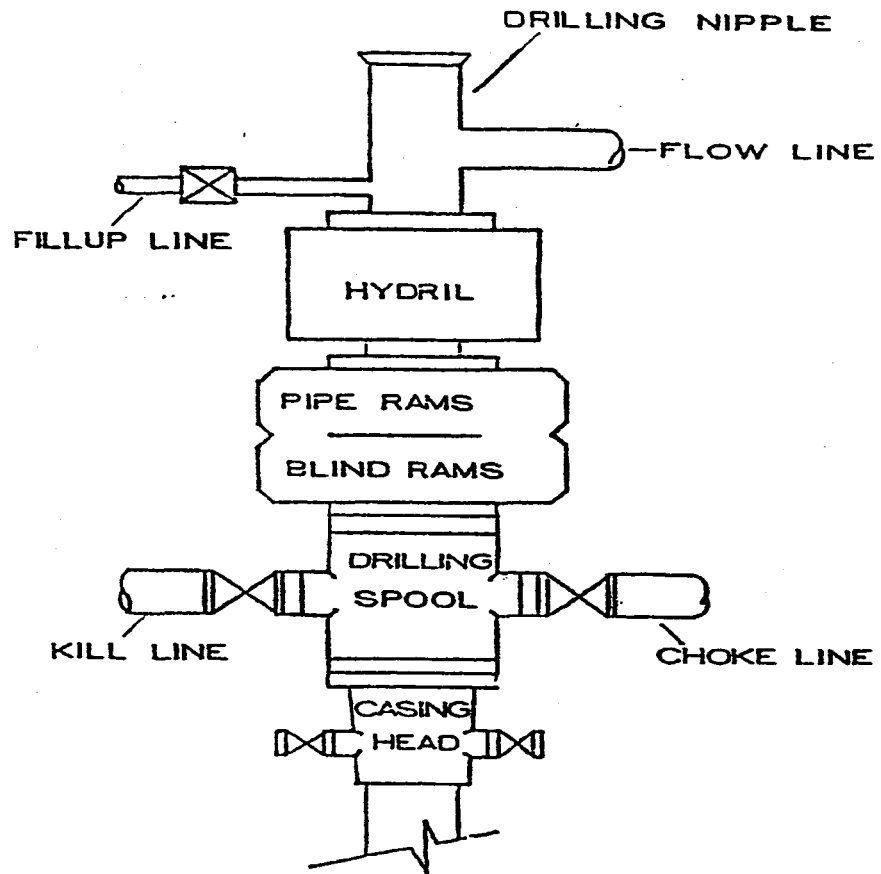
The site security plan is on file in DEPI's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

DOMINION EXPLORATION & PRODUCTION, INC.

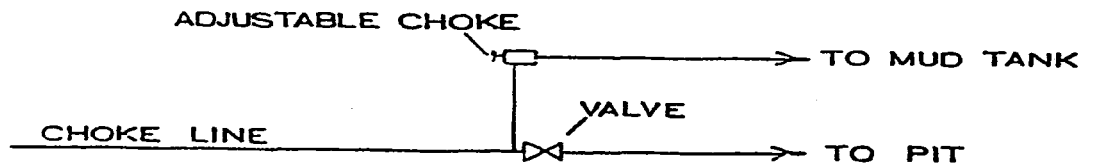
1:		not to scale
FLOW1SCP	TYPICAL FLOW DIAGRAM	date: / /



## BOP STACK



## CHOKE MANIFOLD



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/04/2004

API NO. ASSIGNED: 43-047-35875

WELL NAME: HCU 14-34F

OPERATOR: DOMINION EXPL &amp; PROD ( N1095 )

CONTACT: DON HAMILTON

PHONE NUMBER: 435-650-1886

## PROPOSED LOCATION:

SWSE 34 100S 200E

SURFACE: 0829 FSL 1958 FEL

SESW BOTTOM: 0700 FSL 1950 FWL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: U-79130

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: MVRD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.89901

LONGITUDE: 109.64828

## RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. 76S630500330 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
 (No. 43-10447 )

☒ RDCC Review (Y/N)  
 (Date: )

☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

R649-2-3.

Unit HILL CREEK

R649-3-2. General

Siting: 460 From Qtr/Qtr &amp; 920' Between Wells

R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 197-11

Eff Date: 8-12-00

Siting: Suspends General Siting

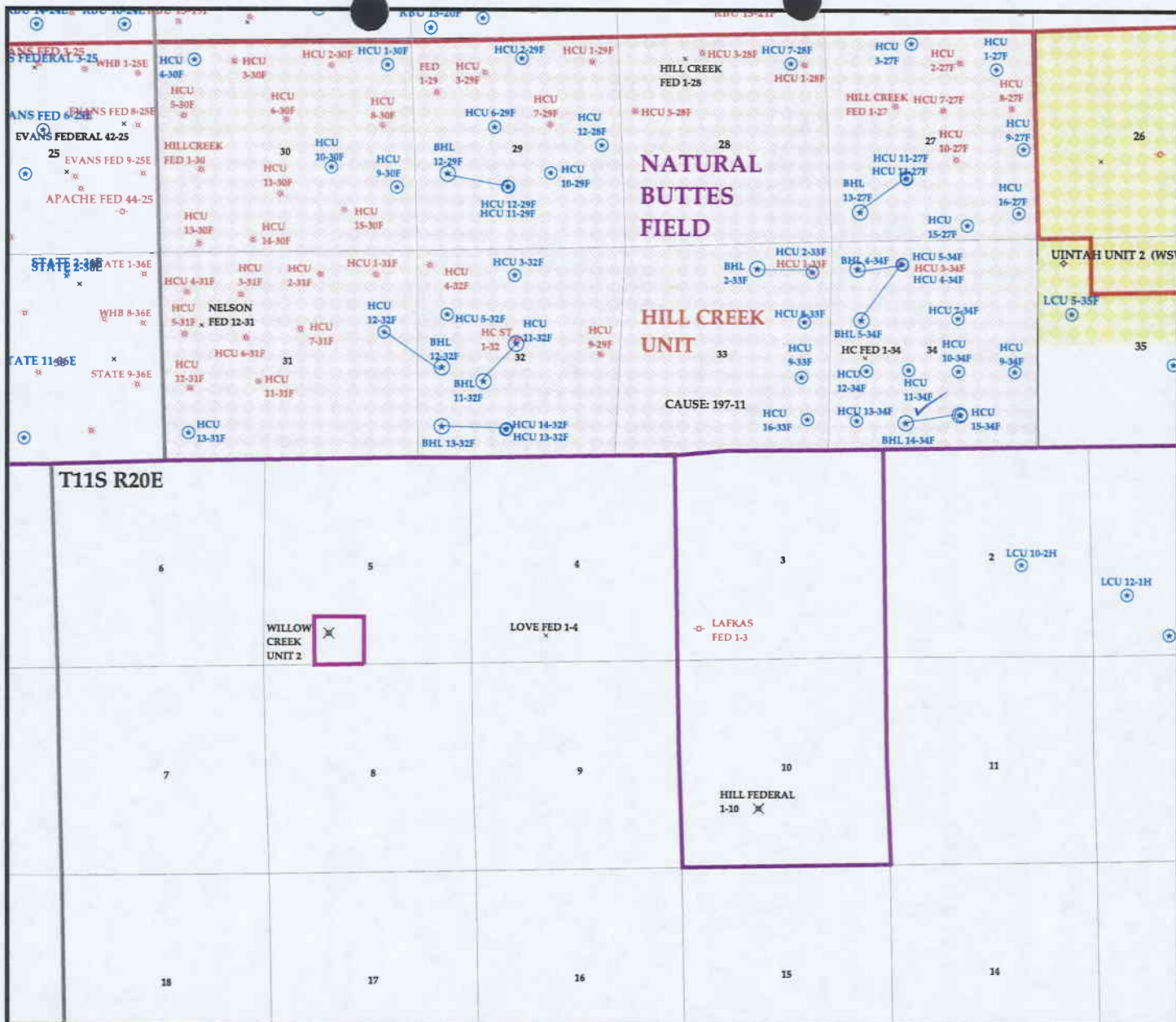
☒ R649-3-11. Directional Drill

## COMMENTS:

## STIPULATIONS:

1- Federal Approval

2- OIL SHALE



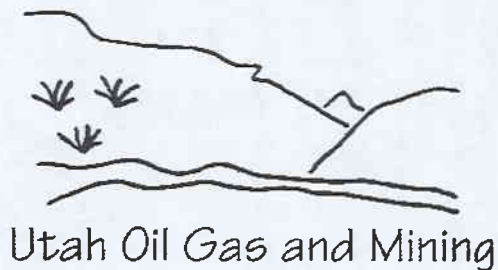
OPERATOR: DOMINION EXPL & PROD (N1095)

SEC. 34 T.10S R.20E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

SPACING: R649-3-11 / DIRECTIONAL DRILLING



PREPARED BY: DIANA WHITNEY  
DATE: 6-AUG-2004

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

3160

(UT-922)

August 10, 2004

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2004 Plan of Development Hill Creek Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2004 within the Hill Creek Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Mesaverde)		
43-047-35870	HCU 13-32F Sec 32 T10S R20E 0740 FSL 2231 FWL	
	BHL Sec 32 T10S R20E 0800 FSL 0600 FWL	
43-047-35872	HCU 14-32F Sec 32 T10S R20E 0720 FSL 2216 FWL	
43-047-35873	HCU 3-32F Sec 32 T10S R20E 0617 FNL 2459 FWL	
43-047-35874	HCU 11-32F Sec 32 T10S R20E 2350 FNL 2508 FWL	
	BHL Sec 32 T10S R20E 1950 FSL 1650 FWL	
43-047-35871	HCU 12-32F Sec 31 T10S R20E 2080 FNL 0855 FEL	
	BHL Sec 32 T10S R20E 2300 FSL 0600 FWL	
43-047-35875	HCU 14-34F Sec 34 T10S R20E 0829 FSL 1958 FEL	
	BHL Sec 34 T10S R20E 0700 FSL 1950 FWL	

This office has no objections to permitting the wells at this time.

/s/ Michael L. Coulthard

Dominion Exploration & Production, Inc.  
14000 Quail Springs Parkway, #600, Oklahoma City, OK 73134-2600



Attn: Diana Whitney  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

Reference: Exception to Location & Sitting of Well  
HCU 14-34F, Surface Location 829' FSL & 1958' FEL, Sec.34-10S-20E  
Bottom Location 700' FSL & 1950' FWL, Sec. 34-10S-20E  
Uintah County, Utah

Dear Ms. Whitney:

Dominion Exploration & Production, Inc. is requesting an exception to Rule 649-3-11, for the above referenced well, due to the directional drilling. Dominion Exploration & Production, Inc. is the only owner within a 460' radius from all points along the intended well bore.

If you should require additional information please feel free to contact me at (405) 749-5263.

Sincerely,

Dominion Exploration & Production, Inc.

Carla Christian  
Regulatory Specialist

Enclosure

RECEIVED  
AUG 13 2004  
DIV. OF OIL, GAS & MINING



## State of Utah

Department of  
Natural ResourcesROBERT L. MORGAN  
*Executive Director*Division of  
Oil, Gas & MiningLOWELL P. BRAXTON  
*Division Director*OLENE S. WALKER  
*Governor*GAYLE F. McKEACHNIE  
*Lieutenant Governor*

August 17, 2004

Dominion Exploration & Production, Inc  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

Re: Hill Creek Unit 14-34F Well, Surface Location 829' FSL, 1958' FEL, SW SE,  
Sec. 34, T. 10 South, R. 20 East, Bottom Location 700' FSL, 1950' FWL,  
SE SW, Sec. 34, T. 10 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-35875.

Sincerely,

John R. Baza  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Dominion Exploration & Production, Inc  
Well Name & Number Hill Creek Unit 14-34F  
API Number: 43-047-35875  
Lease: U-79130

Surface Location: SW SE                      Sec. 34              T. 10 South              R. 20 East  
Bottom Location: SE SW                      Sec. 34              T. 10 South              R. 20 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

#### 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### 6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>U-79130</b>
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Ute Indian Tribe</b>
2. NAME OF OPERATOR <b>Dominion Exploration &amp; Production, Inc.</b>		7. UNIT AGREEMENT NAME <b>Hill Creek Unit</b>
3. ADDRESS AND TELEPHONE NO. <b>14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263</b>		8. FARM OR LEASE NAME, WELL NO. <b>HCU 14-34F</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface <b>829' FSL, 1,958' FEL SW/4 SE/4</b> At proposed prod. zone <b>700' FSL, 1,950' FWL SE/4 SW/4</b>		9. API WELL NO. <b>43-047-35815</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>13.18 miles southeast of Ouray, Utah</b>		10. FIELD AND POOL, OR WILDCAT <b>Natural Buttes</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>700'</b>	16. NO. OF ACRES IN LEASE <b>640</b>	11. SEC. T, R, M, OR BLK <b>Section 34, T10S, R20E, SLB&amp;M</b>
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>25'</b>	19. PROPOSED DEPTH <b>8,050'</b>	12. COUNTY OR PARISH <b>Uintah</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5,340' GR</b>		13. STATE <b>Utah</b>
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40 acres</b>
22. APPROX. DATE WORK WILL START* <b>January 1, 2005</b>		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40 ST&C	48#	500'	450 sks "C" Cement with additives (see Drilling Plan)
12-1/4"	9-5/8" J-55 LT&C	36#	2,800'	300 sacks Lead and 390 sacks Tail (see Drilling Plan)
7-7/8"	5-1/2" Mav-80 LT&C	17#	8,050'	90 sacks Lead and 600 sacks Tail (see Drilling Plan)

Bond Information:

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 0330

Other Information:

Drilling Plan and Surface Use Plan are attached.  
Dominion requests that this complete application for permit to drill be held confidential.

RECEIVED

APR 01 2005

DIV. OF OIL, GAS & MINING

ORIGINAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Don Hamilton Don Hamilton TITLE Agent for Dominion DATE August 2, 2004

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE 03/18/2005

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

UDOGM



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Dominion E&P Inc.  
Well Name & Number: Hill Creek Unit 14-34F  
API Number: 43-047-35875  
Lease Number: U-79130  
Location: SESW Sec. 34 T.10S R. 20E  
Agreement: River Bend Unit

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**A. DRILLING PROGRAM**

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to John Mayers of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

3. Casing Program and Auxiliary Equipment

All waiting on cement times must be adequate to achieve 500 psi compressive strength at the casing shoe prior to drilling out.

4. Mud Program and Circulating Medium

None

5. Coring, Logging and Testing Program

A cement bond log (CBL) will be run from the production casing shoe to the top of cement or the intermediate casing shoe whichever is deeper. The CBL shall be utilized to determine the bond quality for the production casing

**Please submit to this office, in LAS format, an electronic copy of all logs run on this well This submission will replace the requirement for submittal of paper logs to the BLM.**

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

6. Notifications of Operations

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.  
All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood (435) 828-7874  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

Michael Lee (435) 828-7875  
Petroleum Engineer

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

Dominion Exploration and Production, Inc. (Dominion) will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have updated "Access Permits" prior to construction. All Dominion personnel, contractors and subcontractors will have these permits in their vehicles at all times. Companies that have not complied with this COA will be in violation of the Ute Tribal Business License Ordinance, and will be subject to fines and penalties.

Dominion employees, representatives, and/or authorized personnel (subcontractors) shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.

Dominion employees and/or authorized personnel (subcontractors) in the field will have approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

Dominion will notify the Ute Tribe and Bureau of Indian Affairs (BIA) in writing of any requested modification of APDs or Rights-Of Way (ROW). Dominion shall receive written notification of authorization or denial of the requested modification. Without authorization, Dominion will be subject to fines and penalties.

The Ute Tribe Energy & Minerals Department shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. A Tribal Technician is to routinely monitor construction. Dominion shall make arrangements with the Ute Energy & Minerals Department for all monitoring that will exceed regular working hours for Tribal Technicians. A qualified archaeologist accompanied by a Tribal Technician will monitor any trenching construction of the pipeline.

A corridor ROW, 60 feet wide and 993 feet long shall be granted for the pipeline and for the new access road. The new access road, planned pipeline and pad shall be shared by both wells. The constructed, travel width of the access road will be limited to 18 feet. Upon authorization by the Ute Tribe Energy & Minerals Department, the ROW may be wider where sharp curves; deep cuts and fills occur; or, where intersections with other roads are required.

Culverts and diversion ditches will be placed and constructed where needed. Road base gravel will be used where sandy soils make roadways and the drilling location hazardous for access or drilling operations.

Upon completion of the pertinent APD and ROWs, Dominion will notify the Ute Tribe Energy & Minerals Department for a Tribal Technician to verify the Affidavit of Completion.

Production waters, oil, and other byproducts shall not be placed on access roads or the well pad.

All vehicular traffic, personnel movement, construction and restoration operations will be confined to the areas examined and approved and to the existing roadways and/or evaluated access routes.

Dominion will implement "Safety and Emergency Plan" and ensure plan compliance.

Dominion shall stop construction activities and notify personnel from the Ute Tribe Energy & Minerals Department and BIA if cultural remains including paleontology resources (vertebrate fossils) are exposed or identified during construction. The Ute Tribe Department of Cultural Rights and Protection and the BIA will provide mitigation measures prior to allowing construction.

Dominion employees and/or authorized personnel (subcontractors) will not be allowed to collect artifacts and paleontology fossils. No significant cultural resources shall be disturbed.

Dominion will control noxious weeds on the well site and ROWs. Dominion will be responsible for noxious weed control if weeds spread from the project area onto adjoining land.

Reserve pits will be lined with an impervious synthetic liner. A fence will be constructed around the reserve pit until it is backfilled. Prior to backfilling the reserve pit, all fluids will be pumped from the pit into trucks and hauled, to approved disposal sites. When the reserve pits are backfilled, the surplus oil and mud, etc., will be buried a minimum of 3 feet below the surface of the soil.

A closed system will be used during production. This means that production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites.

Surface pipelines will be constructed to lay on the soil surface. The pipeline portion of the ROW will not be bladed or cleared of vegetation without authorization of the BIA. Surface pipelines shall be welded in place at well sites or on access roads. They shall be pulled into place and assembled with suitable equipment. Vehicles shall not use pipeline ROWs as access roads unless specifically authorized.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface. After construction is completed the disturbed area shall be contoured to blend into the natural landscape and be reseeded between September 15 and November 1 of the year following construction with perennial vegetation seed mixture provided by the BIA or Ute Tribe.

Before the site is abandoned, Dominion will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Soil erosion will be mitigated, by reseeding all disturbed areas.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

**1. Type of Well**  
☐ Oil Well ☒ Gas Well ☐ Other **CONFIDENTIAL**

**2. Name of Operator**  
Dominion Exploration & Production, Inc.

**3a. Address** Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

**3b. Phone No. (include area code)**  
(405) 749-5263

**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)**  
829' FSL & 1958' FEL, SW SE Sec. 34-10S-20E

**5. Lease Serial No.**  
U-79130

**6. If Indian, Allottee or Tribe Name**

**7. If Unit or CA/Agreement, Name and/or No.**  
Hill Creek Unit

**8. Well Name and No.**  
HCU 14-34F

**9. API Well No.**  
43-047-35875

**10. Field and Pool, or Exploratory Area**  
Natural Buttes

**11. County or Parish, State**  
Uintah, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

**13** Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen, directionally or recomplete, horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion, in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Dominion would like to change the bottom hole location from 700' FSL & 1950' FWL, to 700' FSL & 2120' FWL, 170',  
Section 34-10S-20E.

NW 615205X 39.898339  
BHL 4417155Y -109.652404

COPY SENT TO OPERATOR  
Date: 7-12-05  
Initials: CHD

**14. I hereby certify that the foregoing is true and correct**

Name (Printed/Typed) Carla Christian

Title Regulatory Specialist

Signature *Carla Christian*

Date 6/30/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 7/6/05  
By: *[Signature]*

Federal Approval Of This  
Action Is Necessary

RECEIVED  
JUL 05 2005  
DIV. OF OIL, GAS & MINING



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 6/27/2005 Time: 13:41:52  
Co-ordinate(NE) Reference: HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,263.87Azi)  
Plan: Plan #1

Page: 1

Field: Natural Buttes Field  
Utah County, Utah  
USA

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
Coordinate System: Site Centre  
Geomagnetic Model: igrf2005

Site: HCU 14-34F  
Hill Creek Unit  
Sec. 34, T10S, R20E

Site Position: Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
From: Geographic Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 5338.00 ft Grid Convergence: 1.18 deg

Well: HCU 14-34F

Slot Name:

Surface Position: +N/-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
+E/-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
Position Uncertainty: 0.00 ft  
Reference Point: +N/-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
+E/-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
Measured Depth: 0.00 ft Inclination: 0.00 deg  
Vertical Depth: 0.00 ft Azimuth: 0.00 deg

Wellpath: Original Hole

Current Datum: est. KB @ 5356'  
Magnetic Data: 6/27/2005  
Field Strength: 52904 nT  
Vertical Section: Depth From (TVD)  
ft

Height 0.00 ft  
+N/-S  
ft

Drilled From: Well Ref. Point  
Tie-on Depth: 0.00 ft  
Above System Datum: Mean Sea Level  
Declination: 11.88 deg  
Mag Dip Angle: 65.92 deg  
+E/-W Direction  
ft deg

0.00 0.00 0.00 263.87

Plan: Plan #1

Date Composed: 6/27/2005  
Version: 1  
Tied-to: From Well Ref. Point

Principal: Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	263.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	263.87	550.00	0.00	0.00	0.00	0.00	0.00	263.87	
1067.58	20.70	263.87	1056.39	-9.88	-91.97	4.00	4.00	0.00	263.87	
3845.38	20.70	263.87	3654.81	-114.82	-1068.38	0.00	0.00	0.00	0.00	
4535.49	0.00	263.87	4330.00	-128.00	-1191.00	3.00	-3.00	0.00	180.00	
8255.49	0.00	263.87	8050.00	-128.00	-1191.00	0.00	0.00	0.00	263.87	

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	263.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	263.87	100.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87
200.00	0.00	263.87	200.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87
300.00	0.00	263.87	300.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87
400.00	0.00	263.87	400.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87
500.00	0.00	263.87	500.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87
550.00	0.00	263.87	550.00	0.00	0.00	0.00	0.00	0.00	0.00	263.87

### Section 2 : Start Build 4.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
600.00	2.00	263.87	599.99	-0.09	-0.87	0.87	4.00	4.00	0.00	0.00
700.00	6.00	263.87	699.73	-0.84	-7.80	7.85	4.00	4.00	0.00	0.00





# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 6/27/2005 Time: 13:41:52  
Co-ordinate(NE) Reference: HCU 14-34F, True North  
Vertical (TVD) Reference: KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,263.87Azi)  
Plan: Plan #1

Page: 2

### Section 2 : Start Build 4.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
800.00	10.00	263.87	798.73	-2.33	-21.64	21.76	4.00	4.00	0.00	0.00
900.00	14.00	263.87	896.53	-4.55	-42.30	42.55	4.00	4.00	0.00	0.00
1000.00	18.00	263.87	992.63	-7.49	-69.70	70.11	4.00	4.00	0.00	0.00
1067.58	20.70	263.87	1056.39	-9.88	-91.97	92.50	4.00	4.00	0.00	0.00

### Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1100.00	20.70	263.87	1086.72	-11.11	-103.36	103.96	0.00	0.00	0.00	0.00
1200.00	20.70	263.87	1180.26	-14.89	-138.51	139.31	0.00	0.00	0.00	0.00
1300.00	20.70	263.87	1273.80	-18.66	-173.66	174.66	0.00	0.00	0.00	0.00
1400.00	20.70	263.87	1367.34	-22.44	-208.82	210.02	0.00	0.00	0.00	0.00
1500.00	20.70	263.87	1460.89	-26.22	-243.97	245.37	0.00	0.00	0.00	0.00
1600.00	20.70	263.87	1554.43	-30.00	-279.12	280.72	0.00	0.00	0.00	0.00
1700.00	20.70	263.87	1647.97	-33.78	-314.27	316.08	0.00	0.00	0.00	0.00
1800.00	20.70	263.87	1741.51	-37.55	-349.42	351.43	0.00	0.00	0.00	0.00
1900.00	20.70	263.87	1835.06	-41.33	-384.57	386.78	0.00	0.00	0.00	0.00
2000.00	20.70	263.87	1928.60	-45.11	-419.72	422.13	0.00	0.00	0.00	0.00
2100.00	20.70	263.87	2022.14	-48.89	-454.87	457.49	0.00	0.00	0.00	0.00
2200.00	20.70	263.87	2115.68	-52.66	-490.02	492.84	0.00	0.00	0.00	0.00
2300.00	20.70	263.87	2209.23	-56.44	-525.17	528.19	0.00	0.00	0.00	0.00
2400.00	20.70	263.87	2302.77	-60.22	-560.32	563.55	0.00	0.00	0.00	0.00
2500.00	20.70	263.87	2396.31	-64.00	-595.47	598.90	0.00	0.00	0.00	0.00
2600.00	20.70	263.87	2489.85	-67.77	-630.62	634.25	0.00	0.00	0.00	0.00
2700.00	20.70	263.87	2583.40	-71.55	-665.77	669.60	0.00	0.00	0.00	0.00
2800.00	20.70	263.87	2676.94	-75.33	-700.92	704.96	0.00	0.00	0.00	0.00
2900.00	20.70	263.87	2770.48	-79.11	-736.07	740.31	0.00	0.00	0.00	0.00
3000.00	20.70	263.87	2864.02	-82.89	-771.22	775.66	0.00	0.00	0.00	0.00
3100.00	20.70	263.87	2957.56	-86.66	-806.37	811.01	0.00	0.00	0.00	0.00
3200.00	20.70	263.87	3051.11	-90.44	-841.52	846.37	0.00	0.00	0.00	0.00
3300.00	20.70	263.87	3144.65	-94.22	-876.67	881.72	0.00	0.00	0.00	0.00
3400.00	20.70	263.87	3238.19	-98.00	-911.82	917.07	0.00	0.00	0.00	0.00
3500.00	20.70	263.87	3331.73	-101.77	-946.97	952.43	0.00	0.00	0.00	0.00
3600.00	20.70	263.87	3425.28	-105.55	-982.12	987.78	0.00	0.00	0.00	0.00
3700.00	20.70	263.87	3518.82	-109.33	-1017.27	1023.13	0.00	0.00	0.00	0.00
3800.00	20.70	263.87	3612.36	-113.11	-1052.42	1058.48	0.00	0.00	0.00	0.00
3845.38	20.70	263.87	3654.81	-114.82	-1068.38	1074.53	0.00	0.00	0.00	0.00

### Section 4 : Start Drop -3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3900.00	19.06	263.87	3706.17	-116.81	-1086.85	1093.10	3.00	-3.00	0.00	180.00
4000.00	16.06	263.87	3801.50	-120.03	-1116.85	1123.28	3.00	-3.00	0.00	180.00
4055.45	14.40	263.87	3855.00	-121.59	-1131.33	1137.85	3.00	-3.00	0.00	-180.00
4100.00	13.06	263.87	3898.28	-122.72	-1141.85	1148.42	3.00	-3.00	0.00	180.00
4200.00	10.06	263.87	3996.23	-124.86	-1161.78	1168.47	3.00	-3.00	0.00	180.00
4300.00	7.06	263.87	4095.11	-126.45	-1176.58	1183.36	3.00	-3.00	0.00	180.00
4395.36	4.20	263.87	4190.00	-127.45	-1185.89	1192.72	3.00	-3.00	0.00	180.00
4400.00	4.06	263.87	4194.62	-127.49	-1186.22	1193.05	3.00	-3.00	0.00	-180.00
4500.00	1.06	263.87	4294.51	-127.96	-1190.67	1197.53	3.00	-3.00	0.00	180.00
4535.49	0.00	263.87	4330.00	-128.00	-1191.00	1197.86	3.00	-3.00	0.00	-180.00

### Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4600.00	0.00	263.87	4394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
4700.00	0.00	263.87	4494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
4800.00	0.00	263.87	4594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
4900.00	0.00	263.87	4694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5000.00	0.00	263.87	4794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5100.00	0.00	263.87	4894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 6/27/2005 Time: 13:41:52  
Co-ordinate(NE) Reference: HCU 14-34F, True North  
Vertical (TVD) Reference: KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,263.87Azi)  
Plan: Plan #1

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### Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5200.00	0.00	263.87	4994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5300.00	0.00	263.87	5094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5355.49	0.00	263.87	5150.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5400.00	0.00	263.87	5194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5500.00	0.00	263.87	5294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5600.00	0.00	263.87	5394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5700.00	0.00	263.87	5494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5800.00	0.00	263.87	5594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
5900.00	0.00	263.87	5694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6000.00	0.00	263.87	5794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6100.00	0.00	263.87	5894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6200.00	0.00	263.87	5994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6300.00	0.00	263.87	6094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6400.00	0.00	263.87	6194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6500.00	0.00	263.87	6294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6505.49	0.00	263.87	6300.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6600.00	0.00	263.87	6394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6700.00	0.00	263.87	6494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6800.00	0.00	263.87	6594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
6900.00	0.00	263.87	6694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7000.00	0.00	263.87	6794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7100.00	0.00	263.87	6894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7200.00	0.00	263.87	6994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7300.00	0.00	263.87	7094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7355.49	0.00	263.87	7150.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7400.00	0.00	263.87	7194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7500.00	0.00	263.87	7294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7600.00	0.00	263.87	7394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7700.00	0.00	263.87	7494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7800.00	0.00	263.87	7594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
7900.00	0.00	263.87	7694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
8000.00	0.00	263.87	7794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
8100.00	0.00	263.87	7894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
8200.00	0.00	263.87	7994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87
8255.49	0.00	263.87	8050.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	263.87

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	263.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	263.87	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	263.87	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	263.87	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	263.87	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	263.87	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	0.00	263.87	550.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	2.00	263.87	599.99	-0.09	-0.87	0.87	4.00	4.00	0.00	
700.00	6.00	263.87	699.73	-0.84	-7.80	7.85	4.00	4.00	0.00	
800.00	10.00	263.87	798.73	-2.33	-21.64	21.76	4.00	4.00	0.00	
900.00	14.00	263.87	896.53	-4.55	-42.30	42.55	4.00	4.00	0.00	
1000.00	18.00	263.87	992.63	-7.49	-69.70	70.11	4.00	4.00	0.00	
1067.58	20.70	263.87	1056.39	-9.88	-91.97	92.50	4.00	4.00	0.00	
1100.00	20.70	263.87	1086.72	-11.11	-103.36	103.96	0.00	0.00	0.00	
1200.00	20.70	263.87	1180.26	-14.89	-138.51	139.31	0.00	0.00	0.00	
1300.00	20.70	263.87	1273.80	-18.66	-173.66	174.66	0.00	0.00	0.00	
1400.00	20.70	263.87	1367.34	-22.44	-208.82	210.02	0.00	0.00	0.00	
1500.00	20.70	263.87	1460.89	-26.22	-243.97	245.37	0.00	0.00	0.00	
1600.00	20.70	263.87	1554.43	-30.00	-279.12	280.72	0.00	0.00	0.00	
1700.00	20.70	263.87	1647.97	-33.78	-314.27	316.08	0.00	0.00	0.00	



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 6/27/2005 Time: 13:41:52  
Co-ordinate(NE) Reference: HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,263.87Azi)  
Plan: Plan #1

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### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1800.00	20.70	263.87	1741.51	-37.55	-349.42	351.43	0.00	0.00	0.00	
1900.00	20.70	263.87	1835.06	-41.33	-384.57	386.78	0.00	0.00	0.00	
2000.00	20.70	263.87	1928.60	-45.11	-419.72	422.13	0.00	0.00	0.00	
2100.00	20.70	263.87	2022.14	-48.89	-454.87	457.49	0.00	0.00	0.00	
2200.00	20.70	263.87	2115.68	-52.66	-490.02	492.84	0.00	0.00	0.00	
2300.00	20.70	263.87	2209.23	-56.44	-525.17	528.19	0.00	0.00	0.00	
2400.00	20.70	263.87	2302.77	-60.22	-560.32	563.55	0.00	0.00	0.00	
2500.00	20.70	263.87	2396.31	-64.00	-595.47	598.90	0.00	0.00	0.00	
2600.00	20.70	263.87	2489.85	-67.77	-630.62	634.25	0.00	0.00	0.00	
2700.00	20.70	263.87	2583.40	-71.55	-665.77	669.60	0.00	0.00	0.00	
2800.00	20.70	263.87	2676.94	-75.33	-700.92	704.96	0.00	0.00	0.00	
2900.00	20.70	263.87	2770.48	-79.11	-736.07	740.31	0.00	0.00	0.00	
3000.00	20.70	263.87	2864.02	-82.89	-771.22	775.66	0.00	0.00	0.00	
3100.00	20.70	263.87	2957.56	-86.66	-806.37	811.01	0.00	0.00	0.00	
3200.00	20.70	263.87	3051.11	-90.44	-841.52	846.37	0.00	0.00	0.00	
3300.00	20.70	263.87	3144.65	-94.22	-876.67	881.72	0.00	0.00	0.00	
3400.00	20.70	263.87	3238.19	-98.00	-911.82	917.07	0.00	0.00	0.00	
3500.00	20.70	263.87	3331.73	-101.77	-946.97	952.43	0.00	0.00	0.00	
3600.00	20.70	263.87	3425.28	-105.55	-982.12	987.78	0.00	0.00	0.00	
3700.00	20.70	263.87	3518.82	-109.33	-1017.27	1023.13	0.00	0.00	0.00	
3800.00	20.70	263.87	3612.36	-113.11	-1052.42	1058.48	0.00	0.00	0.00	
3845.38	20.70	263.87	3654.81	-114.82	-1068.38	1074.53	0.00	0.00	0.00	
3900.00	19.06	263.87	3706.17	-116.81	-1086.85	1093.10	3.00	-3.00	0.00	
4000.00	16.06	263.87	3801.50	-120.03	-1116.85	1123.28	3.00	-3.00	0.00	
4055.45	14.40	263.87	3855.00	-121.59	-1131.33	1137.85	3.00	-3.00	0.00	Wasatch Tongue
4100.00	13.06	263.87	3898.28	-122.72	-1141.85	1148.42	3.00	-3.00	0.00	
4200.00	10.06	263.87	3996.23	-124.86	-1161.78	1168.47	3.00	-3.00	0.00	
4300.00	7.06	263.87	4095.11	-126.45	-1176.58	1183.36	3.00	-3.00	0.00	
4395.36	4.20	263.87	4190.00	-127.45	-1185.89	1192.72	3.00	-3.00	0.00	Uteland Limestone
4400.00	4.06	263.87	4194.62	-127.49	-1186.22	1193.05	3.00	-3.00	0.00	
4500.00	1.06	263.87	4294.51	-127.96	-1190.67	1197.53	3.00	-3.00	0.00	
4535.49	0.00	263.87	4330.00	-128.00	-1191.00	1197.86	3.00	-3.00	0.00	Vertical Landing Point
4600.00	0.00	263.87	4394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
4700.00	0.00	263.87	4494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
4800.00	0.00	263.87	4594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
4900.00	0.00	263.87	4694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5000.00	0.00	263.87	4794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5100.00	0.00	263.87	4894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5200.00	0.00	263.87	4994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5300.00	0.00	263.87	5094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5355.49	0.00	263.87	5150.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	Chapita Wells
5400.00	0.00	263.87	5194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5500.00	0.00	263.87	5294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5600.00	0.00	263.87	5394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5700.00	0.00	263.87	5494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5800.00	0.00	263.87	5594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
5900.00	0.00	263.87	5694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6000.00	0.00	263.87	5794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6100.00	0.00	263.87	5894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6200.00	0.00	263.87	5994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6300.00	0.00	263.87	6094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6400.00	0.00	263.87	6194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6500.00	0.00	263.87	6294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6505.49	0.00	263.87	6300.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	Uteland Buttes



# Ryan Energy Technologies

## Planning Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 6/27/2005 Time: 13:41:52  
Co-ordinate(NE) Reference: HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,263.87Azi)  
Plan: Plan #1

Page: 5

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6600.00	0.00	263.87	6394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6700.00	0.00	263.87	6494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6800.00	0.00	263.87	6594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
6900.00	0.00	263.87	6694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7000.00	0.00	263.87	6794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7100.00	0.00	263.87	6894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7200.00	0.00	263.87	6994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7300.00	0.00	263.87	7094.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7355.49	0.00	263.87	7150.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	Mesaverde
7400.00	0.00	263.87	7194.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7500.00	0.00	263.87	7294.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7600.00	0.00	263.87	7394.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7700.00	0.00	263.87	7494.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7800.00	0.00	263.87	7594.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
7900.00	0.00	263.87	7694.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
8000.00	0.00	263.87	7794.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
8100.00	0.00	263.87	7894.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
8200.00	0.00	263.87	7994.51	-128.00	-1191.00	1197.86	0.00	0.00	0.00	
8255.49	0.00	263.87	8050.00	-128.00	-1191.00	1197.86	0.00	0.00	0.00	BHL

### Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
							Deg	Min	Sec	Deg	Min	Sec
Vertical Landing Point		4330.00	-128.00	-1191.00	7141001.782157799.79	39 54 33.144 N	109	39	19.505 W			
-Plan hit target												
BHL		8050.00	-128.00	-1191.00	7141001.782157799.79	39 54 33.144 N	109	39	19.505 W			
-Plan hit target												

### Formations

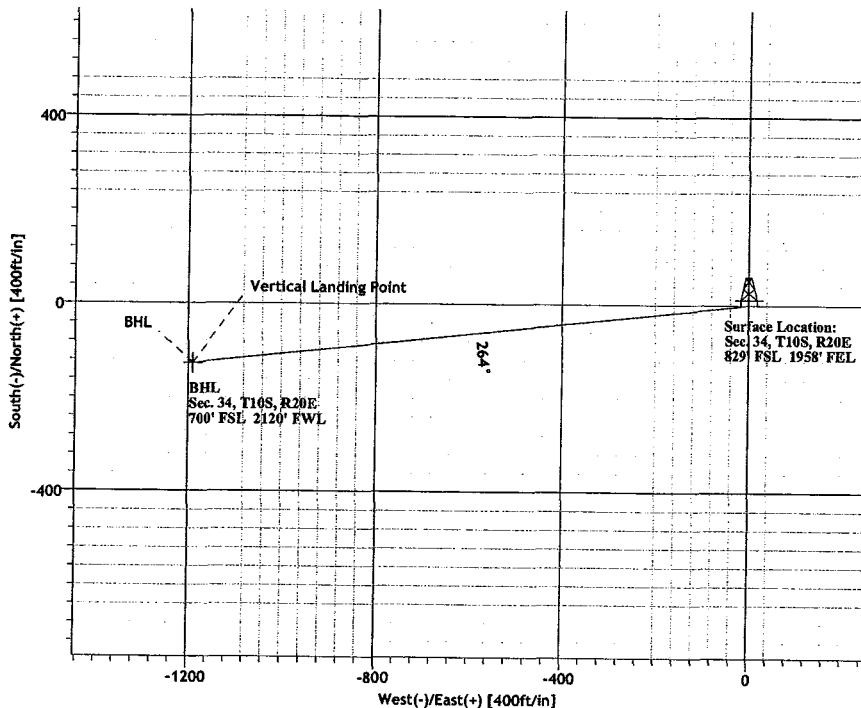
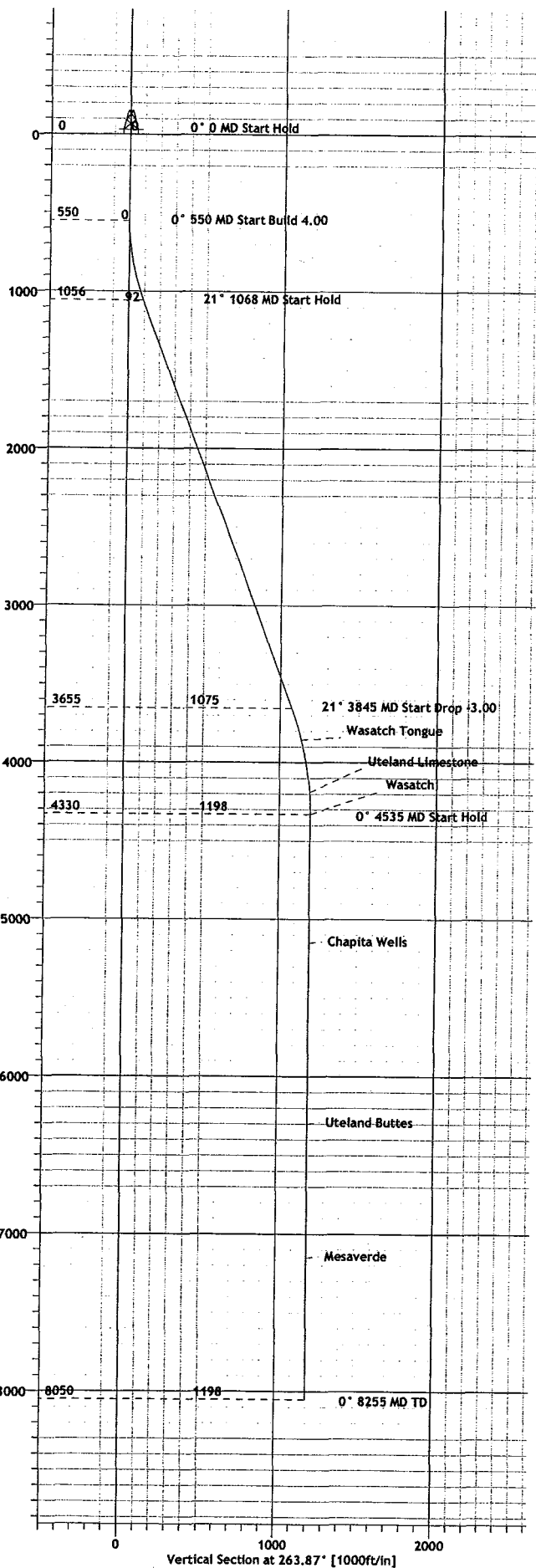
MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
4055.45	3855.00	Wasatch Tongue		0.00	0.00
4395.36	4190.00	Uteland Limestone		0.00	0.00
4535.49	4330.00	Wasatch		0.00	0.00
5355.49	5150.00	Chapita Wells		0.00	0.00
6505.49	6300.00	Uteland Buttes		0.00	0.00
7355.49	7150.00	Mesaverde		0.00	0.00



# Plan #1

# Dominion E & P

Well: HCU 14-34F  
Field: River Bend Unit  
Uintah Co. Utah  
Sec. 34, T10S, R20E



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	263.87	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	263.87	550.00	0.00	0.00	0.00	263.87	0.00	
3	1067.58	20.70	263.87	1056.39	-9.88	-91.97	4.00	263.87	92.50	
4	3845.38	20.70	263.87	3654.81	-114.82	-1068.38	0.00	0.00	1074.53	
5	4535.49	0.00	263.87	4330.00	-128.00	-1191.00	3.00	180.00	1197.86	
6	8255.49	0.00	263.87	8050.00	-128.00	-1191.00	0.00	263.87	1197.86	

## WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
HCU 14-34F	0.00	0.00	7141154.37	2158987.89	39°54'34.409N	109°39'04.220W	N/A

## FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3855.00	4055.45	Wasatch Tongue
2	4190.00	4395.36	Uteland Limestone
3	4330.00	4535.49	Wasatch
4	5150.00	5355.49	Chapita Wells
5	6300.00	6505.49	Uteland Buttes
6	7150.00	7355.49	Mesaverde

## WELLPATH DETAILS

Original Hole			
Rig:	est. KB @ 5356'	0.00ft	
Ref. Datum:			
V.Section	Origin	Origin	Starting
Angle	+N/-S	+E/-W	From TVD
	263.87°	0.00	0.00

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Centre HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.00  
Section (VS) Reference: Site Centre (0.00N,0.00E)  
Measured Depth Reference: est. KB @ 5356' 0.00  
Calculation Method: Minimum Curvature



Azimuths to True North  
Magnetic North: 11.88°

Magnetic Field  
Strength: 52904nT  
Dip Angle: 65.92°  
Date: 6/27/2005  
Model: igr2005

## FIELD DETAILS

Natural Buttes Field  
Uintah County, Utah  
USA  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igr2005  
System Datum: Mean Sea Level  
Local North: True North

## SITE DETAILS

HCU 14-34F  
Hill Creek Unit  
Sec. 34, T10S, R20E  
Site Centre Latitude: 39°54'34.409N  
Longitude: 109°39'04.220W  
Ground Level: 5338.00  
Positional Uncertainty: 0.00  
Convergence: 1.18

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBMIT IN TRIPPLICATE - Other Instructions on Reverse Side

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

Dominion Exploration &amp; Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 731343b. Phone No. (include area code)  
(405) 749-5263

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

829' FSL &amp; 1958' FEL, SW SE Sec. 34-10S-20E

## 5. Lease Serial No.

U-79130

## 6. If Indian, Allottee or Tribe Name

## 7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

## 8. Well Name and No.

HCU 14-34F

## 9. API Well No.

43-047-35875

## 10. Field and Pool, or Exploratory Area

Natural Buttes

## 11. County or Parish, State

Uintah, UT

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Altering Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other

APD Expiration.

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen, directionally or recompleting horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleting in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The state APD for this well expires August 17, 2005. Dominion is hereby requesting a one year extension.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 08-09-05

By: [Signature]

COPY SENT TO OPERATOR

Date: 8-1-05

Initials: CMC

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Carla Christian

Title Regulatory Specialist

Signature

[Signature: Carla Christian]

Date 8/02/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

AUG 05 2005

DIV. OF OIL, GAS &amp; MINING

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-35875  
**Well Name:** HCU 14-34F  
**Location:** Section 34-10S-20E, 829' FSL & 1958' FEL  
**Company Permit Issued to:** Dominion Exploration & Production, Inc.  
**Date Original Permit Issued:** 8/17/2004

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Carla Arustian  
Signature

8/3/2005  
Date

**Title:** Regulatory Specialist

**Representing:** Dominion Exploration & Production, Inc.

**RECEIVED**

**AUG 05 2005**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

AUG 04 2005

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

829' FSL & 1958' FEL, SW SE Sec. 34-10S-20E

5. Lease Serial No.

U-79130

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 14-34F

9. API Well No.

43-047-35875

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Altering Casing

☐ Casing Repair

☐ Change Plans

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☐ Deepen

☐ Fracture Treat

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☐ Well Integrity

☒ Other

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The state APD for this well expires August 17, 2005. Dominion is hereby requesting a one year extension.

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Carla Christian

Title Regulatory Specialist

Signature

Carla Christian

Date 8/02/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Mark Baker

Petroleum Engineer

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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RECEIVED

SEP 09 2005

DIV. OF OIL, GAS & MINING

UDOGM



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-047-35875  
**Well Name:** HCU 14-34F  
**Location:** Section 34-10S-20E, 829' FSL & 1958' FEL  
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Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

Carla Christian  
Signature

8/3/2005  
Date

**Title:** Regulatory Specialist

**Representing:** Dominion Exploration & Production, Inc.

# **CONDITIONS OF APPROVAL**

## **Dominion Exploration & Production Inc.**

### **Notice of Intent APD Extension**

**Lease:** UTU-79130  
**Well:** HCU 14-34F  
**Location:** SWSE Sec 34-T10S-R20E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 08/17/06
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Matt Baker of this office at (435) 781-4490

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135

Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an**  
**abandoned well. Use Form 3160-3 (APD) for such proposals.**

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

CONFIDENTIAL

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address Suite 600  
14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)  
(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

829' FSL & 1958' FEL, SW SE Sec. 34-10S-20E

5. Lease Serial No.

U-79130

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 14-34F

9. API Well No.

43-047-35875

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Well
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Spud well 9/15/05. Ran 13 jts. 13 3/8", 40#, H-40, 8rd csg., set @ 526. Cemented w/500 sks Class "G", 1.18 yld, 15.6 ppg., 13 bbls cmt. To pit.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Carla Christian

Title Regulatory Specialist

Signature

*Carla Christian*

Date 11/22/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

NOV 28 2005

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Dominion Exploration & Production, Inc. Operator Account Number: N 1095  
Address: 14000 Quail Springs Parkway, Suite 600  
city Oklahoma City  
state Ok zip 73134 Phone Number: (405) 749-1300

**Well 1**

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-35875	HCU 14-34F	SWSE	34	10S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>AB</u>	<u>99999</u>	<u>12829</u>	<u>9/15/2005</u>	<u>11/30/05</u>		
Comments: <u>MURD = WS MUP</u> <b>CONFIDENTIAL J</b>						

**Well 2**

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

**Well 3**

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Carla Christian

Name (Please Print)

Carla Christian

Signature

Regulatory Specialist

11/22/2005

Title

**RECEIVED**

**NOV 28 2005**

DIV OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

*SUBMIT IN TRIPLICATE - Other Instructions on reverse side*

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

2. Name of Operator

Dominion Exploration & Production, Inc.

3a. Address

Suite 600

14000 Quail Springs Parkway, OKC, OK 73134

3b. Phone No. (include area code)

(405) 749-5263

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

829' FSL & 1958' FEL, SW SE Sec. 34-10S-20E

5. Lease Serial No.

U-79130

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Hill Creek Unit

8. Well Name and No.

HCU 14-34F

9. API Well No.

43-047-35875

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Acidize

☐

Altering Casing

☐

Casing Repair

☐

Change Plans

☐

Convert to Injection

☐

Deepen

☐

Fracture Treat

☐

New Construction

☐

Plug and Abandon

☐

Plug Back

☐

Production (Start/Resume)

☐

Reclamation

☐

Recomplete

☐

Temporarily Abandon

☐

Water Disposal

☐

Water Shut-Off

☐

Well Integrity

☒

Other

☐

Drilling Operations

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

12/16/05 ran 64 jts. 9 5/8" 36#, J-55, ST&C csg., set @ 2783', cemented lead w/300 sks "III" CBM Lite, 3.97 cuft/sk, 10.5 ppg, tailed w/390 sks class G, 15.8 ppg, 1.15 yld, top out w/115 sks Class "G", 15.8 ppg, 1.15 yld., cmt. To surface.  
12/24/05 ran 190 jts. 5 1/2", 17#, M-80, LT&C csg., set @ 8138'. Cemented lead w/90 sks of Hi-Fill "V", 11.6 ppg, 3.12 yld, tailed w/700 sks HLC "V", 1.69 yld, 13.0 ppg., clean pits, RD. 1/2/06 perf & frac well. 1/4/06 first sales.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Carla Christian

Title

Regulatory Specialist

Signature

*Carla Christian*

Date

01/06/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

JAN 10 2006

DIV. OF OIL, GAS & MINING

# FACSIMILE COVER PAGE

To : Utah Division of Oil, Gas & Mining

From : g

Sent : 1/11/2006 at 1:08:30 PM

Pages : 4 (including Cover)

Subject : HCU 14-34F *T 10S R20E S-34*

*43-042-35825*

CONFIDENTIAL

RECEIVED

JAN 11 2006

DIV. OF OIL, GAS & MINING

Page: 1

**WELL CHRONOLOGY REPORT**

CONFIDENTIAL

**WELL NAME : HCU 14-34F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 829' FSL 1958' FEL SEC 34 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WM % : 100.00 AFE # : 0503146

API # : 43-047-35875

PLAN DEPTH : 8,100 SPUD DATE : 09/15/05

DHC : \$602,000

CWC : \$586,000

AFE TOTAL : \$1,188,000

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$799,951.84

EVENT CC : \$202,721.00

EVENT TC : \$1,002,672.84

WELL TOTL COST : \$1,099,420

**REPORT DATE: 01/03/06**

MD : 8,171

TVD : 8,016

DAYS : 18

MW :

VISC :

DAILY : DC : \$0.00

CC : \$176,461.00

TC : \$176,461.00

CUM : DC : \$799,951.84

CC : \$191,887.00

TC : \$991,838.84

DAILY DETAILS :

RECEIVED

JAN 11 2006

DIV. OF OIL, GAS &amp; MINING



## WELL CHRONOLOGY REPORT

**WELL NAME : HCU 14-34F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 829' FSL 1958' FEL SEC 34 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0503146

API # : 43-047-35875

PLAN DEPTH : 8,100 SPUD DATE : 09/15/05

DHC : \$602,000

CWC : \$586,000

AFE TOTAL : \$1,188,000

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$799,951.84

EVENT CC : \$202,721.00

EVENT TC : \$1,002,672.84

WELL TOTL COST : \$1,099,420

FRAC STAGE #1, PERFORATE AND FRAC STAGES #2 THUR #5. TURN WELL OVER TO PRODUCTION. 1-2-2006 HCU 14-34F. MIRU SCHLUMBERGER frac equipment, tested lines to 7000 psi. Held safety meeting with all personnel. Quality control on gel & breaker systems with on-site lab was verified. Frac'd Mesa Verde Interval # 1, 7941-72', 8080-86', 2 spf, 76 holes, with 63,739# 20/40 Ottawa sand. Pumped frac at an average rate of 36.2 bpm, using 238.2 mscf of N2 and 598 bbls of fluid. Average surface treating pressure was 4332 psi with sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

3496 gallons Pad YF120ST/N2 gel.

3509 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

2113 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

2117 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

2811 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

2572 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

7754 gallons WF110 slick water flush.

Total frac fluid pumped 598 bbls. N2 was cut during flush. Ru wire line, RIH and set 5K frac plug @ 7840'. RIH and perforate interval #2 @ 7514-20', 7567-73', 7699-7704', 7759-64', 3 spf, 70 holes. Fraced interval #2 w/ 71,889# 20/40 Ottawa sand. Pumped frac at an avg rate of 41.9 bpm, using 259.1 mscf of N2 and 595 bbls of fluid. Avg surface treating pressure was 4433 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

4190 gallons Pad YF120ST/N2 gel.

2839 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

2818 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

2818 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

2812 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

2258 gallons YF120ST/N2 pumped @ 6.0 ppg sand concentration.

7272 gallons WF110 slick water flush.

Total frac fluid pumped 595 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 7200', perforate interval #3 @ 7056-65', 6 spf, 55 holes. Fraced interval #3 w/ 27,737# 20/40 Ottawa sand. Screened out w/ 27,616# in formation, and 121# in the wellbore. Pumped frac at an avg rate of 24.2 bpm, using 113.4 mscf of N2 and 350 bbls of fluid. Avg surface treating pressure was 4351 psi w/ sand concentrations stair stepping from 2.0 ppg to 5.0 ppg.

2799 gallons Pad YF120ST/N2 gel.

1421 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

1416 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

2567 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

6528 gallons WF110 slick water flush.

Total frac fluid pumped 350 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 6600', perforate interval #4 @ 6439-51', 4 spf, 49 holes. Due to screen out and short flush, perms would not break. RIH w/ dump bailer, spotted 9 gallons of acid over perms, and formation broke causing a cross flow covering stage #4. Flowed well to the pit on a 24/64 choke for 1 hour. Fraced interval #4 w/ 31,016# 20/40 Ottawa sand. Pumped frac at an avg rate of 23.4 bpm, using 116.9 mscf of N2 and 428 bbls of fluid. Avg surface treating pressure was 4169 psi w/ sand concentrations stair stepping from 2.0 ppg to 5.0 ppg.

2800 gallons Pad YF115LG/N2 gel.

1418 gallons pumped YF115LG/N2 @ 2.0 ppg sand concentration.

2122 gallons pumped YF115LG/N2 @ 4.0 ppg sand concentration.

2635 gallons pumped YF115LG/N2 @ 5.0 ppg sand concentration.

6276 gallons WF110 slick water flush.

Total frac fluid pumped 428 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 6340', perforate interval #5 @ 6207-15', 6250-56', 4 spf, 58 holes. Fraced interval #5 w/ 41,702# 20/40 Ottawa sand. Pumped frac at an avg rate of 28.1 bpm, using 185.9 mscf of N2 and 357 bbls of fluid. Avg surface treating pressure was 2859 psi w/ sand concentrations stair stepping from 2.0 ppg to 5.0 ppg.

2795 gallons Pad YF115LG/N2 gel.

2120 gallons YF115LG/N2 pumped @ 2.0 ppg sand concentration.

2122 gallons YF115LG/N2 pumped @ 4.0 ppg sand concentration.

2108 gallons YF115LG/N2 pumped @ 5.0 ppg sand concentration.

1383 gallons WF110 slick water flush.

Total frac fluid pumped 357 bbls. N2 was not cut during flush. Opened well to the pit on a 12/64 choke. Turned well over to production.

**RECEIVED**
**JAN 11 2006**





## WELL CHRONOLOGY REPORT

**WELL NAME : HCU 14-34F**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 829' FSL 1958' FEL SEC 34 T 10S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WM % : 100.00 AFE # : 0503146

API # : 43-047-35875

PLAN DEPTH : 8,100 SPUD DATE : 09/15/05

DHC : \$602,000

CWC : \$586,000

AFE TOTAL : \$1,188,000

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$799,951.84

EVENT CC : \$202,721.00

EVENT TC : \$1,002,672.84

WELL TOTL COST : \$1,099,420

**REPORT DATE: 01/05/06**

MD : 8,171

TVD : 8,016

DAYS : 19

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$799,951.84

CC : \$191,887.00

TC : \$991,838.84

DAILY DETAILS : FLOW REPORT WELL FLOWING TO PIT ON 18/64 CHOKE FCP 0, @ 7 PM REMOVE CHOKE WELL UNLOADED @ 2 AM REPLACE 18/64 CHOKE FCP 235, RECOVERED 519 BBLS FRAC FLUID RU FLOWLINE TURN TO SALES @ 10 AM. ON 48/64 CHOKE EST. RATE 300 MCF.

**REPORT DATE: 01/06/06**

MD : 8,171

TVD : 8,016

DAYS : 20

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$799,951.84

CC : \$191,887.00

TC : \$991,838.84

DAILY DETAILS : FLOW REPORT MADE 257 MCF, FCP 191, SLP 129, 3 OIL, 29 WTR. 48/64 CHOKE.

**REPORT DATE: 01/07/06**

MD : 8,171

TVD : 8,016

DAYS : 19

MW :

VISC :

DAILY : DC : \$0.00

CC : \$10,834.00

TC : \$10,834.00

CUM : DC : \$799,951.84

CC : \$202,721.00

TC : \$1,002,672.84

DAILY DETAILS : FLOW REPORT MADE 730 MCF FCP 244, SLP 120, 0 OIL 137 WTR. 14/64 CHOKE. ROAD RIG AND EQUIPMENT FROM THE LCU 6-6G TO LOCATION AND RU SAME. FCP 300#, BLED WELL DN, AND CONTROL W/ 40 BBLS OF 2% KCL WATER. ND FRAC VALVE, NU BOPE, AND RU WORKING FLOOR. MU BHA, WELL STARTED FLOWING, UNABLE TO CONTROL WELL. FLOW WELL TO THE PIT ON A 24/64 CHOKE, RD RIG, NU WELL HEAD ON TOP OF BOPE, AND TURN WELL OVER TO PRODUCTION.

**REPORT DATE: 01/08/06**

MD : 8,171

TVD : 8,016

DAYS : 20

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$799,951.84

CC : \$202,721.00

TC : \$1,002,672.84

DAILY DETAILS : FLOW REPORT MADE 572 MCF FCP 380, SLP 126, 2 OIL 80 WTR. 48/64 CHOKE DN 16 HRS W/O RIG.

**REPORT DATE: 01/09/06**

MD : 8,171

TVD : 8,016

DAYS : 21

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$799,951.84

CC : \$202,721.00

TC : \$1,002,672.84

DAILY DETAILS : FLOW REPORT MADE 855 MCF FCP 196, SLP 138, 0 OIL 90 WTR. 48/64 CHOKE 24 HR PRD.

RECEIVED

JAN 11 2006

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-0137

Expires: November 30, 2000

5. Lease Serial No.

U-79130

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Otherb. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Diff. Resvr.

Other

2. Name of Operator

Dominion Exploration &amp; Production, Inc.

3. Address

14000 Quail Springs Parkway - Ste. 600 - Okla. City, OK 73134

3a. Phone No. (include area code)

405-749-1300

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface

829' FSL &amp; 1958' FEL, SW SE

At top prod. interval reported below

At total depth

700' FSL &amp; 1950' FWL, SE-SW

14. Date Spudded

9/15/2005

15. Date T.D. Reached

12/22/2005

16. Date Completed



D&amp;A



Ready to prod.

1/4/2006

18. Total Depth: MD 8172'  
TVD 8017'19. Plug Back T.D.: MD 8100'  
TVD 7945'20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

Platform Express Triple Combination

W/Gamma Ray, Cement Bond Log

22. Was well cored?

☒ No☐ Yes

(Submit analysis)

Was DST run?

☒ No☐ Yes

(Submit report)

Directional Survey?

☐ No☒ Yes

(Submit copy)

23. Casing and Liner Record (Report all string set in well)

Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	40#	Surface	526'		500 Sx		Circ.	
12 1/4"	9 5/8"	36#	Surface	2783'		805 Sx		Surface	
7 7/8"	5 1/2"	17#	Surface	8138'		790 Sx		Est. TOC @ 2200'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	8029'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Mesaverde	7941'	8086'	7941- 72, 8080- 86		76	Open
B) Mesaverde	7514'	7764'	(7514- 20, 7567- 73, 7699- 04 7759- 64)		70	Open
C) Uteland Buttes	7056'	7065'	7056- 65		55	Open
D) Uteland Buttes	6439'	6451'	6439- 51		49	Open
E) Chapita Wells	6207'	6256'	6207- 15, 6250- 56		58	Open

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7941' - 8086'	Frac w/63,739# 20/40 Ottawa sd., w/238.2 mscf of N2 and 598 bbls of YF 120ST.
7514' - 7764'	Frac w/71,889# 20/40 Ottawa sd., w/259.1 mscf of N2 and 595 bbls of YF 120ST.
7056' - 7065'	Frac w/27,616# 20/40 Ottawa sd., w/113.4 mscf of N2 and 350 bbls of YF 120ST.
6439' - 6451'	Frac w/31,016# 20/40 Ottawa sd., w/116.9 mscf of N2 and 428 bbls of YF 115LG.
6207' - 6256'	Frac w/41,702# 20/40 Ottawa sd., w/185.9 mscf of N2 and 357 bbls of YF 115LG.

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
1/4/2006	3/1/2006	24	→	0	254	15			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
48	138	475	→	0	254	15			Producing

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

(See instructions and spaces for additional data on reverse side)

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MAR 20 2006

DIV. OF OIL, GAS &amp; MINING

## 28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top Meas. Depth
				Wasatch Tongue	3857'
				Uteland Limestone	4208'
				Wasatch	4353'
				Chapita Wells	5271'
				Uteland Buttes	6407'
				Mesaverde	7068'

## 32. Additional remarks (include plugging procedure)

## 33. Circle enclosed attachments:

- ☒ 1. Electrical/Mechanical Logs (1 full set req'd)      2. Geologic Report      3. DST Report      4. Directional Survey  
 5. Sundry Notice for plugging and cement verification      6. Core Analysis      7. Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Carla ChristianTitle Sr.Regulatory Specialist

Signature

Carla ChristianDate March 16, 2006

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDENTIAL

## **DIRECTIONAL & HORIZONTAL DRILLING SYSTEMS**

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**DOMINION EXPLORATION & PRODUCTION**

**NATURAL BUTTES FIELD, UINTAH COUNTY, UTAH**

**(HILL CREEK UNIT) HCU 14-34F**

**SECTION 34, T10S, R20E**

**FINAL WELL REPORT**

19510 Oil Center Blvd.  
Houston, TX 77073  
Tel: 281-443-1414  
Fax: 281-443-1476

6850 West Yellowstone Hwy.  
P.O. Box 50217  
Casper, WY 82604  
Tel: 307-234-9753  
Fax: 307-234-0795

1032 Woodmere Avenue  
Traverse City, MI 49686  
Tel: 231-947-2977  
Fax: 231-947-2978

CONFIDENTIAL

**AS DRILLED**

**HCU 14-34F**

**SECTION 34, T10S, R20E**

**UINTAH COUNTY, UTAH**

19510 Oil Center Blvd.  
Houston, TX 77073  
Tel: 281-443-1414  
Fax: 281-443-1476

6850 West Yellowstone Hwy.  
P.O. Box 50217  
Casper, WY 82604  
Tel: 307-234-9753  
Fax: 307-234-0795

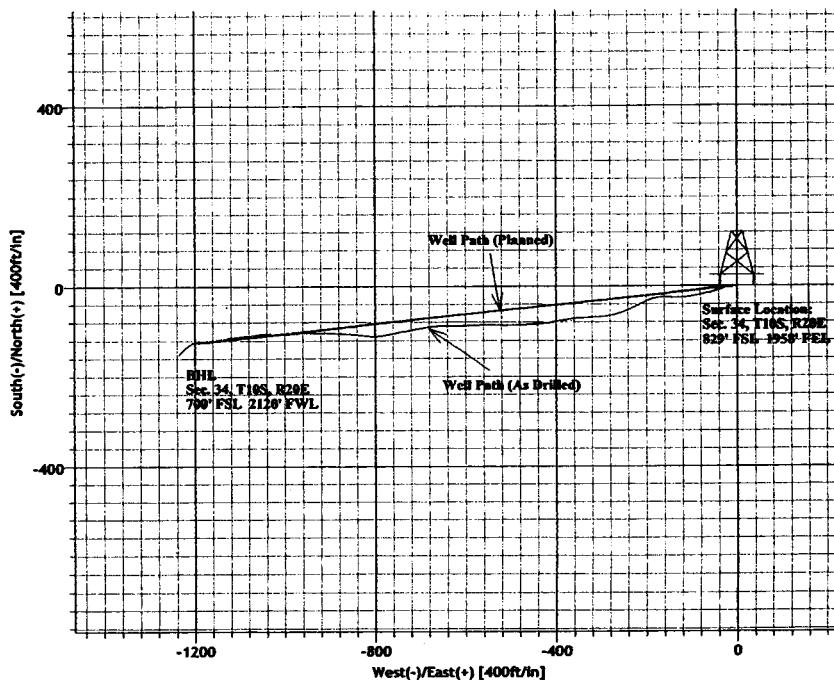
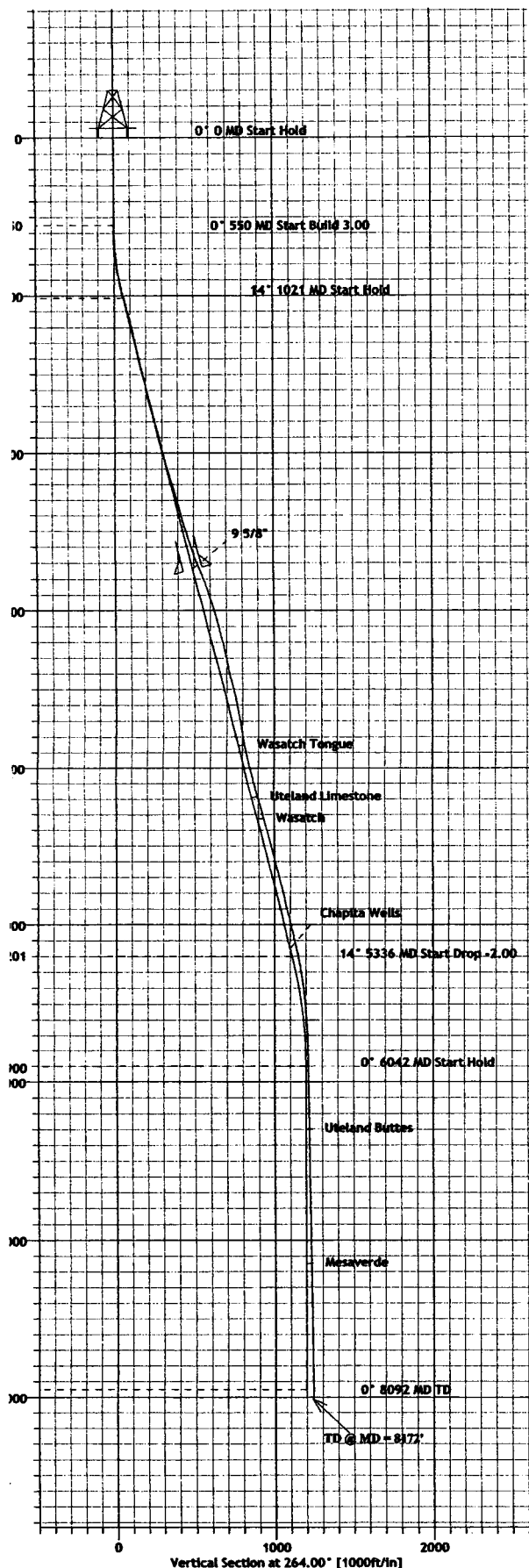
1032 Woodmere Avenue  
Traverse City, MI 49686  
Tel: 231-947-2977  
Fax: 231-947-2978



## Completion (As Drilled)

# Dominion E & P

Well: HCU 14-34F  
Field: River Bend Unit  
Uintah Co. Utah  
Sec. 34, T10S, R20E



### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	264.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	550.00	0.00	264.00	550.00	0.00	0.00	0.00	264.00	0.00	
3	1021.01	14.13	264.00	1016.25	-6.04	-57.47	3.00	264.00	57.79	
4	5335.94	14.13	264.00	5200.62	-116.15	-1105.09	0.00	0.00	1111.18	
5	6042.46	0.00	264.00	5900.00	-125.21	-1191.30	2.00	180.00	1197.86	
6	8092.46	0.00	264.00	7950.00	-125.21	-1191.30	0.00	264.00	1197.86	

### WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
HCU 14-34F	0.00	0.00	7141154.37	2158987.89	39°54'34.409N	109°39'04.220W	N/A

### FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3855.00	3948.33	Wasatch Tongue
2	4190.00	4293.78	Uteland Limestone
3	4330.00	4438.15	Wasatch
4	5150.00	5283.74	Chapita Wells
5	6300.00	6442.46	Uteland Buttes
6	7150.00	7292.46	Mesa Verde

### WELLPATH DETAILS

Original Hole			
Rig:	est. KB @ 5356'	0.00ft	
Ref. Datum:			
V.Section	Origin	Origin	Starting
Angle	+N/-S	+E/-W	From TVD
	264.00°	0.00	0.00

### REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Centre HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.00  
Section (VS) Reference: Site Centre (0.00N, 0.00E)  
Measured Depth Reference: est. KB @ 5356' 0.00  
Calculation Method: Minimum Curvature



Azimuths to True North  
Magnetic North: 11.88°  
Magnetic Field  
Strength: 52904nT  
Dip Angle: 65.92°  
Date: 6/27/2005  
Model: igr2005

### FIELD DETAILS

Natural Buttes Field  
Uintah County, Utah  
USA  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igr2005  
System Datum: Mean Sea Level  
Local North: True North

### SITE DETAILS

HCU 14-34F  
Hill Creek Unit  
Sec. 34, T10S, R20E  
Site Centre Latitude: 39°54'34.409N  
Longitude: 109°39'04.220W  
Ground Level: 5338.00  
Positional Uncertainty: 0.00  
Convergence: 1.18

# **SURVEY REPORT - STANDARD**

## **HCU 14-34F**

### **SECTION 34, T10S, R20E**

### **UINTAH COUNTY, UTAH**

19510 Oil Center Blvd.  
Houston, TX 77073  
Tel: 281-443-1414  
Fax: 281-443-1476

6850 West Yellowstone Hwy.  
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1032 Woodmere Avenue  
Traverse City, MI 49686  
Tel: 231-947-2977  
Fax: 231-947-2978



# Ryan Energy Technologies Survey Report



Company: Dominion E & P Date: 1/5/2006 Time: 17:28:32 Page: 1  
 Field: Natural Buttes Field Co-ordinate(N/E) Reference: Site: HCU 14-34F, True North  
 Site: HCU 14-34F Vertical (TVD) Reference: est. KB @ 5356' 0.0  
 Well: HCU 14-34F Section (VS) Reference: Site (0.00N,0.00E,264.00Az)  
 Wellpath: Original Hole Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Natural Buttes Field  
 Uintah County, Utah  
 USA  
 Map System: US State Plane Coordinate System 1983  
 Geo Datum: GRS 1980  
 Sys Datum: Mean Sea Level  
 Map Zone: Utah, Central Zone  
 Coordinate System: Site Centre  
 Geomagnetic Model: igrf2005

Site: HCU 14-34F  
 Hill Creek Unit  
 Sec. 34, T10S, R20E  
 Site Position: Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 From: Geographic Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft North Reference: True  
 Ground Level: 5338.00 ft Grid Convergence: 1.18 deg

Well: HCU 14-34F Slot Name:  
 Surface Position: +N/-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 +E/-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft  
 Reference Point: +N/-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 +E/-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Measured Depth: 0.00 ft Inclination: 0.00 deg  
 Vertical Depth: 0.00 ft Azimuth: 0.00 deg

Wellpath: Original Hole Drilled From: Well Ref. Point  
 Current Datum: est. KB @ 5356' Height 0.00 ft Tie-on Depth: 0.00 ft  
 Magnetic Data: 6/27/2005 Above System Datum: Mean Sea Level  
 Field Strength: 52904 nT Declination: 11.88 deg  
 Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 65.92 deg  
 ft ft ft Direction  
 deg  
 0.00 0.00 0.00 264.00

Survey: As Drilled Start Date: 12/19/2005  
 Company: Ryan Energy Technologies Engineer: Mitch Kennedy  
 Tool: Tied-to: User Defined

Survey: As Drilled

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
550.00	0.00	264.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
568.00	0.50	63.30	568.00	0.04	0.07	-0.07	2.78	2.78	0.00	
660.00	2.20	264.30	659.98	0.04	-1.33	1.32	2.91	1.85	-172.83	
756.00	6.70	256.20	755.67	-1.48	-8.60	8.71	4.72	4.69	-8.44	
852.00	11.10	253.00	850.49	-5.52	-22.89	23.34	4.61	4.58	-3.33	
946.00	13.90	253.50	942.25	-11.37	-42.37	43.33	2.98	2.98	0.53	
1027.00	15.10	257.00	1020.67	-16.51	-61.98	63.37	1.83	1.48	4.32	
1119.00	14.80	258.50	1109.56	-21.55	-85.17	86.96	0.53	-0.33	1.63	
1213.00	13.70	262.50	1200.67	-25.39	-107.97	110.04	1.57	-1.17	4.26	
1308.00	13.40	270.30	1293.03	-26.81	-130.14	132.23	1.95	-0.32	8.21	
1402.00	13.90	272.20	1384.38	-26.31	-152.31	154.23	0.71	0.53	2.02	
1497.00	13.20	261.60	1476.74	-27.46	-174.45	176.36	2.71	-0.74	-11.16	
1591.00	13.50	247.00	1568.23	-33.32	-195.17	197.58	3.59	0.32	-15.53	
1686.00	14.60	241.40	1660.39	-43.38	-215.89	219.24	1.84	1.16	-5.89	
1780.00	14.70	245.80	1751.34	-53.94	-237.17	241.51	1.19	0.11	4.68	
1876.00	14.20	251.20	1844.31	-62.73	-259.43	264.57	1.50	-0.52	5.62	
1969.00	14.90	260.90	1934.34	-68.30	-282.04	287.63	2.72	0.75	10.43	
2064.00	15.90	267.10	2025.93	-70.89	-307.10	312.82	2.03	1.05	6.53	
2158.00	18.20	266.90	2115.79	-72.34	-334.62	340.35	2.45	2.45	-0.21	
2252.00	16.20	262.70	2205.59	-74.80	-362.29	368.12	2.50	-2.13	-4.47	





# Ryan Energy Technologies

## Survey Report



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 1/5/2006 Time: 17:28:32 Page: 2  
Co-ordinate(NE) Reference: Site: HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,264.00Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: As Drilled

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2347.00	15.90	259.20	2296.89	-78.92	-388.22	394.34	1.07	-0.32	-3.68	
2439.00	15.50	260.00	2385.45	-83.41	-412.70	419.16	0.49	-0.43	0.87	
2534.00	16.00	266.70	2476.89	-86.37	-438.27	444.90	1.98	0.53	7.05	
2628.00	18.60	267.80	2566.64	-87.69	-466.19	472.81	2.79	2.77	1.17	
2828.00	21.20	271.10	2754.68	-88.22	-534.24	540.53	1.42	1.30	1.65	
2920.00	20.50	268.80	2840.66	-88.24	-566.97	573.09	1.17	-0.76	-2.50	
3015.00	17.90	267.10	2930.37	-89.33	-598.19	604.25	2.80	-2.74	-1.79	
3109.00	15.20	270.10	3020.47	-90.04	-624.95	630.93	3.01	-2.87	3.19	
3203.00	13.90	268.70	3111.45	-90.27	-648.56	654.44	1.43	-1.38	-1.49	
3298.00	13.50	265.00	3203.75	-91.50	-671.01	676.90	1.01	-0.42	-3.89	
3393.00	12.70	260.60	3296.28	-94.17	-692.36	698.41	1.35	-0.84	-4.63	
3486.00	12.90	259.40	3386.97	-97.75	-712.65	718.97	0.36	0.22	-1.29	
3581.00	13.80	261.10	3479.40	-101.45	-734.27	740.85	1.03	0.95	1.79	
3675.00	11.30	258.30	3571.15	-105.06	-754.37	761.22	2.74	-2.66	-2.98	
3769.00	10.20	259.50	3663.50	-108.44	-771.57	778.68	1.19	-1.17	1.28	
3863.00	9.70	261.80	3756.08	-111.09	-787.59	794.89	0.68	-0.53	2.45	
3958.00	11.60	273.30	3849.45	-111.68	-805.05	812.32	2.99	2.00	12.11	
4053.00	14.30	275.90	3942.03	-109.92	-826.26	833.23	2.91	2.84	2.74	
4147.00	14.90	275.00	4032.99	-107.68	-849.85	856.45	0.68	0.64	-0.96	
4242.00	14.50	273.40	4124.88	-105.91	-873.89	880.17	0.60	-0.42	-1.68	
4336.00	15.00	272.00	4215.79	-104.78	-897.79	903.83	0.65	0.53	-1.49	
4431.00	14.90	270.40	4307.57	-104.27	-922.29	928.14	0.45	-0.11	-1.68	
4525.00	14.90	269.20	4398.41	-104.35	-946.46	952.19	0.33	0.00	-1.28	
4620.00	14.30	269.40	4490.34	-104.65	-970.41	976.03	0.63	-0.63	0.21	
4714.00	14.40	268.90	4581.41	-104.99	-993.70	999.23	0.17	0.11	-0.53	
4808.00	13.90	267.40	4672.56	-105.73	-1016.67	1022.15	0.66	-0.53	-1.60	
4903.00	14.20	267.10	4764.72	-106.84	-1039.70	1045.18	0.32	0.32	-0.32	
4998.00	14.00	264.10	4856.85	-108.61	-1062.77	1068.30	0.80	-0.21	-3.16	
5092.00	14.30	264.30	4948.00	-110.93	-1085.63	1091.28	0.32	0.32	0.21	
5187.00	13.80	263.40	5040.16	-113.40	-1108.56	1114.34	0.57	-0.53	-0.95	
5281.00	12.60	261.30	5131.68	-116.24	-1129.84	1135.80	1.37	-1.28	-2.23	
5376.00	11.00	260.70	5224.66	-119.27	-1149.02	1155.20	1.69	-1.68	-0.63	
5470.00	9.00	263.90	5317.23	-121.50	-1165.19	1171.50	2.21	-2.13	3.40	
5565.00	7.40	262.50	5411.26	-123.09	-1178.64	1185.05	1.70	-1.68	-1.47	
5659.00	5.50	262.70	5504.66	-124.45	-1189.11	1195.61	2.02	-2.02	0.21	
5754.00	4.00	267.90	5599.33	-125.15	-1196.94	1203.46	1.64	-1.58	5.47	
5848.00	2.80	260.00	5693.16	-125.67	-1202.48	1209.03	1.37	-1.28	-8.40	
5943.00	1.50	231.80	5788.10	-126.84	-1205.74	1212.39	1.73	-1.37	-29.68	
6433.00	0.75	235.00	6278.00	-132.65	-1213.41	1220.63	0.15	-0.15	0.65	
8130.00	1.25	220.00	7974.74	-153.20	-1234.40	1243.65	0.03	0.03	-0.88	
8172.00	1.25	220.00	8016.73	-153.90	-1234.99	1244.31	0.00	0.00	0.00	TD (Projected)

### Annotation

MD ft	TVD ft	
550.00	550.00	KOP
8172.00	8016.73	TD (Projected)

# **Survey Report-Geographic**

## **HCU 14-34F**

### **SECTION 34, T10S, R20E**

### **UINTAH COUNTY, UTAH**

19510 Oil Center Blvd.  
Houston, TX 77073  
Tel: 281-443-1414  
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Fax: 231-947-2978



# Ryan Energy Technologies

## Survey Report - Geographic



Company: Dominion E & P Date: 1/5/2006 Time: 17:30:01 Page: 1  
 Field: Natural Buttes Field Co-ordinate(NE) Reference: Site: HCU 14-34F, True North  
 Site: HCU 14-34F Vertical (TVD) Reference: est. KB @ 5356' 0.0  
 Well: HCU 14-34F Section (VS) Reference: Site (0.00N,0.00E,264.00Azi)  
 Wellpath: Original Hole Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Natural Buttes Field  
 Uintah County, Utah  
 USA  
 Map System: US State Plane Coordinate System 1983 Map Zone: Utah, Central Zone  
 Geo Datum: GRS 1980 Coordinate System: Site Centre  
 Sys Datum: Mean Sea Level Geomagnetic Model: igrf2005

Site: HCU 14-34F  
 Hill Creek Unit  
 Sec. 34, T10S, R20E  
 Site Position: Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 From: Geographic Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft North Reference: True  
 Ground Level: 5338.00 ft Grid Convergence: 1.18 deg

Well: HCU 14-34F Slot Name:  
 Surface Position: +N-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 +E-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft  
 Reference Point: +N-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 +E-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Measured Depth: 0.00 ft Inclination: 0.00 deg  
 Vertical Depth: 0.00 ft Azimuth: 0.00 deg

Wellpath: Original Hole Drilled From: Well Ref. Point  
 Current Datum: est. KB @ 5356' Height 0.00 ft Tie-on Depth: 0.00 ft  
 Magnetic Data: 6/27/2005 Above System Datum: Mean Sea Level  
 Field Strength: 52904 nT Declination: 11.88 deg  
 Vertical Section: Depth From (TVD) +N-S +E-W Mag Dip Angle: 65.92 deg  
 ft ft ft Direction deg  
 0.00 0.00 0.00 264.00

Survey: As Drilled Start Date: 12/19/2005  
 Company: Ryan Energy Technologies Engineer: Mitch Kennedy  
 Tool: Tied-to: User Defined

Survey: As Drilled

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map	Map	← Latitude →			← Longitude →		
						Northing ft	Easting ft	Deg	Min	Sec	Deg	Min	Sec
550.00	0.00	264.00	550.00	0.00	0.00	7141154.37	2158987.89	39	54	34.409 N	109	39	4.220 W
568.00	0.50	63.30	568.00	0.04	0.07	7141154.40	2158987.96	39	54	34.409 N	109	39	4.219 W
660.00	2.20	264.30	659.98	0.04	-1.33	7141154.38	2158986.57	39	54	34.409 N	109	39	4.237 W
756.00	6.70	256.20	755.67	-1.48	-8.60	7141152.71	2158979.32	39	54	34.394 N	109	39	4.330 W
852.00	11.10	253.00	850.49	-5.52	-22.89	7141148.38	2158965.13	39	54	34.354 N	109	39	4.514 W
946.00	13.90	253.50	942.25	-11.37	-42.37	7141142.12	2158945.77	39	54	34.297 N	109	39	4.764 W
1027.00	15.10	257.00	1020.67	-16.51	-61.98	7141136.58	2158926.27	39	54	34.246 N	109	39	5.015 W
1119.00	14.80	258.50	1109.56	-21.55	-85.17	7141131.06	2158903.19	39	54	34.196 N	109	39	5.313 W
1213.00	13.70	262.50	1200.67	-25.39	-107.97	7141126.75	2158880.47	39	54	34.158 N	109	39	5.606 W
1308.00	13.40	270.30	1293.03	-26.81	-130.14	7141124.88	2158858.34	39	54	34.144 N	109	39	5.890 W
1402.00	13.90	272.20	1384.38	-26.31	-152.31	7141124.91	2158836.16	39	54	34.149 N	109	39	6.175 W
1497.00	13.20	261.60	1476.74	-27.46	-174.45	7141123.31	2158814.05	39	54	34.138 N	109	39	6.459 W
1591.00	13.50	247.00	1568.23	-33.32	-195.17	7141117.02	2158793.45	39	54	34.080 N	109	39	6.725 W
1686.00	14.60	241.40	1660.39	-43.38	-215.89	7141106.53	2158772.95	39	54	33.980 N	109	39	6.991 W
1780.00	14.70	245.80	1751.34	-53.94	-237.17	7141095.53	2158751.89	39	54	33.876 N	109	39	7.264 W
1876.00	14.20	251.20	1844.31	-62.73	-259.43	7141086.29	2158729.82	39	54	33.789 N	109	39	7.550 W
1969.00	14.90	260.90	1934.34	-68.30	-282.04	7141080.25	2158707.33	39	54	33.734 N	109	39	7.840 W
2064.00	15.90	267.10	2025.93	-70.89	-307.10	7141077.15	2158682.33	39	54	33.708 N	109	39	8.161 W
2158.00	18.20	266.90	2115.79	-72.34	-334.62	7141075.13	2158654.84	39	54	33.694 N	109	39	8.514 W
2252.00	16.20	262.70	2205.59	-74.80	-362.29	7141072.10	2158627.23	39	54	33.670 N	109	39	8.870 W



# Ryan Energy Technologies

## Survey Report - Geographic



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 1/5/2006 Time: 17:30:01 Page: 2  
Co-ordinate(NE) Reference: Site: HCU 14-34F, True North  
Vertical (TVD) Reference: est. KB @ 5356' 0.0  
Section (VS) Reference: Site (0.00N,0.00E,264.00Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: As Drilled

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	← Latitude →			← Longitude →		
								Deg	Min	Sec	Deg	Min	Sec
2347.00	15.90	259.20	2296.89	-78.92	-388.22	7141067.44	2158601.39	39	54	33.629 N	109	39	9.202 W
2439.00	15.50	260.00	2385.45	-83.41	-412.70	7141062.44	2158577.01	39	54	33.585 N	109	39	9.517 W
2534.00	16.00	266.70	2476.89	-86.37	-438.27	7141058.95	2158551.50	39	54	33.555 N	109	39	9.845 W
2628.00	18.60	267.80	2566.64	-87.69	-466.19	7141057.06	2158523.61	39	54	33.542 N	109	39	10.203 W
2828.00	21.20	271.10	2754.68	-88.22	-534.24	7141055.12	2158455.60	39	54	33.537 N	109	39	11.076 W
2920.00	20.50	268.80	2840.66	-88.24	-566.97	7141054.43	2158422.87	39	54	33.537 N	109	39	11.497 W
3015.00	17.90	267.10	2930.37	-89.33	-598.19	7141052.69	2158391.68	39	54	33.526 N	109	39	11.897 W
3109.00	15.20	270.10	3020.47	-90.04	-624.95	7141051.43	2158364.94	39	54	33.519 N	109	39	12.241 W
3203.00	13.90	268.70	3111.45	-90.27	-648.56	7141050.71	2158341.34	39	54	33.517 N	109	39	12.544 W
3298.00	13.50	265.00	3203.75	-91.50	-671.01	7141049.02	2158318.92	39	54	33.505 N	109	39	12.832 W
3393.00	12.70	260.60	3296.28	-94.17	-692.36	7141045.91	2158297.63	39	54	33.478 N	109	39	13.106 W
3486.00	12.90	259.40	3386.97	-97.75	-712.65	7141041.91	2158277.41	39	54	33.443 N	109	39	13.366 W
3581.00	13.80	261.10	3479.40	-101.45	-734.27	7141037.76	2158255.88	39	54	33.406 N	109	39	13.644 W
3675.00	11.30	258.30	3571.15	-105.06	-754.37	7141033.74	2158235.86	39	54	33.371 N	109	39	13.902 W
3769.00	10.20	259.50	3663.50	-108.44	-771.57	7141030.00	2158218.73	39	54	33.337 N	109	39	14.122 W
3863.00	9.70	261.80	3756.08	-111.09	-787.59	7141027.03	2158202.77	39	54	33.311 N	109	39	14.328 W
3958.00	11.60	273.30	3849.45	-111.68	-805.05	7141026.07	2158185.32	39	54	33.305 N	109	39	14.552 W
4053.00	14.30	275.90	3942.03	-109.92	-826.26	7141027.39	2158164.08	39	54	33.322 N	109	39	14.824 W
4147.00	14.90	275.00	4032.99	-107.68	-849.85	7141029.15	2158140.45	39	54	33.345 N	109	39	15.127 W
4242.00	14.50	273.40	4124.88	-105.91	-873.89	7141030.42	2158116.38	39	54	33.362 N	109	39	15.435 W
4336.00	15.00	272.00	4215.79	-104.78	-897.79	7141031.05	2158092.46	39	54	33.373 N	109	39	15.742 W
4431.00	14.90	270.40	4307.57	-104.27	-922.29	7141031.06	2158067.95	39	54	33.378 N	109	39	16.057 W
4525.00	14.90	269.20	4398.41	-104.35	-946.46	7141030.47	2158043.79	39	54	33.377 N	109	39	16.367 W
4620.00	14.30	269.40	4490.34	-104.65	-970.41	7141029.69	2158019.86	39	54	33.374 N	109	39	16.674 W
4714.00	14.40	268.90	4581.41	-104.99	-993.70	7141028.86	2157996.57	39	54	33.371 N	109	39	16.973 W
4808.00	13.90	267.40	4672.56	-105.73	-1016.67	7141027.65	2157973.63	39	54	33.364 N	109	39	17.268 W
4903.00	14.20	267.10	4764.72	-106.84	-1039.70	7141026.06	2157950.62	39	54	33.353 N	109	39	17.564 W
4998.00	14.00	264.10	4856.85	-108.61	-1062.77	7141023.82	2157927.59	39	54	33.335 N	109	39	17.860 W
5092.00	14.30	264.30	4948.00	-110.93	-1085.63	7141021.02	2157904.79	39	54	33.312 N	109	39	18.153 W
5187.00	13.80	263.40	5040.16	-113.40	-1108.56	7141018.08	2157881.91	39	54	33.288 N	109	39	18.447 W
5281.00	12.60	261.30	5131.68	-116.24	-1129.84	7141014.80	2157860.70	39	54	33.260 N	109	39	18.720 W
5376.00	11.00	260.70	5224.66	-119.27	-1149.02	7141011.38	2157841.58	39	54	33.230 N	109	39	18.967 W
5470.00	9.00	263.90	5317.23	-121.50	-1165.19	7141008.81	2157825.47	39	54	33.208 N	109	39	19.174 W
5565.00	7.40	262.50	5411.26	-123.09	-1178.64	7141006.94	2157812.05	39	54	33.192 N	109	39	19.347 W
5659.00	5.50	262.70	5504.66	-124.45	-1189.11	7141005.37	2157801.61	39	54	33.179 N	109	39	19.481 W
5754.00	4.00	267.90	5599.33	-125.15	-1196.94	7141004.50	2157793.80	39	54	33.172 N	109	39	19.581 W
5848.00	2.80	260.00	5693.16	-125.67	-1202.48	7141003.87	2157788.27	39	54	33.167 N	109	39	19.653 W
5943.00	1.50	231.80	5788.10	-126.84	-1205.74	7141002.63	2157785.03	39	54	33.155 N	109	39	19.694 W
6433.00	0.75	235.00	6278.00	-132.65	-1213.41	7140996.67	2157777.49	39	54	33.098 N	109	39	19.793 W
8130.00	1.25	220.00	7974.74	-153.20	-1234.40	7140975.69	2157756.92	39	54	32.895 N	109	39	20.062 W
8172.00	1.25	220.00	8016.73	-153.90	-1234.99	7140974.98	2157756.35	39	54	32.888 N	109	39	20.070 W

### Annotation

MD ft	TVD ft	
550.00	550.00	KOP
8172.00	8016.73	TD (Projected)

# **SURVEY REPORT - CLOSURE**

## **HCU 14-34F**

## **SECTION 34, T10S, R20E**

## **UINTAH COUNTY, UTAH**

19510 Oil Center Blvd.  
Houston, TX 77073  
Tel: 281-443-1414  
Fax: 281-443-1476

6850 West Yellowstone Hwy.  
P.O. Box 50217  
Casper, WY 82604  
Tel: 307-234-9753  
Fax: 307-234-0795

1032 Woodmere Avenue  
Traverse City, MI 49686  
Tel: 231-947-2977  
Fax: 231-947-2978



# Ryan Energy Technologies

## Survey Report - Closure



Company: Dominion E & P  
 Field: Natural Buttes Field  
 Site: HCU 14-34F  
 Well: HCU 14-34F  
 Wellpath: Original Hole

Date: 1/5/2006 Time: 17:25:04 Page: 1  
 Co-ordinate(NE) Reference: Site: HCU 14-34F, True North  
 Vertical (TVD) Reference: est. KB @ 5356' 0.0  
 Section (VS) Reference: Site (0.00N,0.00E,264.00Azi)  
 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Natural Buttes Field  
 Uintah County, Utah  
 USA

Map System: JS State Plane Coordinate System 1983  
 Geo Datum: GRS 1980  
 Sys Datum: Mean Sea Level

Map Zone: Utah, Central Zone  
 Coordinate System: Site Centre  
 Geomagnetic Model: igrf2005

Site: HCU 14-34F  
 Hill Creek Unit  
 Sec. 34, T10S, R20E

Site Position: Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 From: Geographic Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft North Reference: True  
 Ground Level: 5338.00 ft Grid Convergence: 1.18 deg

Well: HCU 14-34F Slot Name:

Well Position: +N/-S 0.00 ft Northing: 7141154.37 ft Latitude: 39 54 34.409 N  
 +E/-W 0.00 ft Easting: 2158987.89 ft Longitude: 109 39 4.220 W  
 Position Uncertainty: 0.00 ft

Wellpath: Original Hole

Current Datum: est. KB @ 5356' Height 0.00 ft  
 Magnetic Data: 6/27/2005  
 Field Strength: 52904 nT  
 Vertical Section: Depth From (TVD) ft

Drilled From: Well Ref. Point  
 Tie-on Depth: 0.00 ft  
 Above System Datum: Mean Sea Level  
 Declination: 11.88 deg  
 Mag Dip Angle: 65.92 deg

+N/-S +E/-W Direction  
 ft ft deg

0.00 0.00 0.00 264.00

Survey Program for Definitive Wellpath  
 Date: 1/5/2006 Validated: No Version: 0  
 Actual From To Survey Toolcode Tool Name

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClcDist ft	ClcAzi deg	Comment
550.00	0.00	264.00	550.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
568.00	0.50	63.30	568.00	0.04	0.07	-0.07	2.78	0.08	63.30	
660.00	2.20	264.30	659.98	0.04	-1.33	1.32	2.91	1.33	271.74	
756.00	6.70	256.20	755.67	-1.48	-8.60	8.71	4.72	8.73	260.24	
852.00	11.10	253.00	850.49	-5.52	-22.89	23.34	4.61	23.54	256.44	
946.00	13.90	253.50	942.25	-11.37	-42.37	43.33	2.98	43.87	254.98	
1027.00	15.10	257.00	1020.67	-16.51	-61.98	63.37	1.83	64.14	255.08	
1119.00	14.80	258.50	1109.56	-21.55	-85.17	86.96	0.53	87.85	255.80	
1213.00	13.70	262.50	1200.67	-25.39	-107.97	110.04	1.57	110.92	256.77	
1308.00	13.40	270.30	1293.03	-26.81	-130.14	132.23	1.95	132.87	258.36	
1402.00	13.90	272.20	1384.38	-26.31	-152.31	154.23	0.71	154.57	260.20	
1497.00	13.20	261.60	1476.74	-27.46	-174.45	176.36	2.71	176.60	261.05	
1591.00	13.50	247.00	1568.23	-33.32	-195.17	197.58	3.59	197.99	260.31	
1686.00	14.60	241.40	1660.39	-43.38	-215.89	219.24	1.84	220.21	258.64	
1780.00	14.70	245.80	1751.34	-53.94	-237.17	241.51	1.19	243.23	257.19	
1876.00	14.20	251.20	1844.31	-62.73	-259.43	264.57	1.50	266.91	256.41	
1969.00	14.90	260.90	1934.34	-68.30	-282.04	287.63	2.72	290.19	256.39	
2064.00	15.90	267.10	2025.93	-70.89	-307.10	312.82	2.03	315.17	257.00	
2158.00	18.20	266.90	2115.79	-72.34	-334.62	340.35	2.45	342.35	257.80	
2252.00	16.20	262.70	2205.59	-74.80	-362.29	368.12	2.50	369.93	258.33	
2347.00	15.90	259.20	2296.89	-78.92	-388.22	394.34	1.07	396.16	258.51	
2439.00	15.50	260.00	2385.45	-83.41	-412.70	419.16	0.49	421.05	258.57	
2534.00	16.00	266.70	2476.89	-86.37	-438.27	444.90	1.98	446.70	258.85	



# Ryan Energy Technologies

## Survey Report - Closure



Company: Dominion E & P  
Field: Natural Buttes Field  
Site: HCU 14-34F  
Well: HCU 14-34F  
Wellpath: Original Hole

Date: 1/5/2006 Time: 17:25:04 Page: 2  
Co-ordinate(NE) Reference: Site: HCU 14-34F, True North  
Vertical (TVD) Reference: est KB @ 5356' 0.0'  
Section (VS) Reference: Site (0.00N,0.00E,264.00Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	ClsDist ft	ClsAzi deg	Comment
2628.00	18.60	267.80	2566.64	-87.69	-466.19	472.81	2.79	474.37	259.35	
2828.00	21.20	271.10	2754.68	-88.22	-534.24	540.53	1.42	541.47	260.62	
2920.00	20.50	268.80	2840.66	-88.24	-566.97	573.09	1.17	573.80	261.15	
3015.00	17.90	267.10	2930.37	-89.33	-598.19	604.25	2.80	604.82	261.51	
3109.00	15.20	270.10	3020.47	-90.04	-624.95	630.93	3.01	631.40	261.80	
3203.00	13.90	268.70	3111.45	-90.27	-648.56	654.44	1.43	654.81	262.08	
3298.00	13.50	265.00	3203.75	-91.50	-671.01	676.90	1.01	677.22	262.24	
3393.00	12.70	260.60	3296.28	-94.17	-692.36	698.41	1.35	698.74	262.25	
3486.00	12.90	259.40	3386.97	-97.75	-712.65	718.97	0.36	719.33	262.19	
3581.00	13.80	261.10	3479.40	-101.45	-734.27	740.85	1.03	741.25	262.13	
3675.00	11.30	258.30	3571.15	-105.06	-754.37	761.22	2.74	761.65	262.07	
3769.00	10.20	259.50	3663.50	-108.44	-771.57	778.68	1.19	779.15	262.00	
3863.00	9.70	261.80	3756.08	-111.09	-787.59	794.89	0.68	795.39	261.97	
3958.00	11.60	273.30	3849.45	-111.68	-805.05	812.32	2.99	812.76	262.10	
4053.00	14.30	275.90	3942.03	-109.92	-826.26	833.23	2.91	833.54	262.42	
4147.00	14.90	275.00	4032.99	-107.68	-849.85	856.45	0.68	856.64	262.78	
4242.00	14.50	273.40	4124.88	-105.91	-873.89	880.17	0.60	880.28	263.09	
4336.00	15.00	272.00	4215.79	-104.78	-897.79	903.83	0.65	903.89	263.34	
4431.00	14.90	270.40	4307.57	-104.27	-922.29	928.14	0.45	928.17	263.55	
4525.00	14.90	269.20	4398.41	-104.35	-946.46	952.19	0.33	952.20	263.71	
4620.00	14.30	269.40	4490.34	-104.65	-970.41	976.03	0.63	976.03	263.85	
4714.00	14.40	268.90	4581.41	-104.99	-993.70	999.23	0.17	999.23	263.97	
4808.00	13.90	267.40	4672.56	-105.73	-1016.67	1022.15	0.66	1022.15	264.06	
4903.00	14.20	267.10	4764.72	-106.84	-1039.70	1045.18	0.32	1045.18	264.13	
4998.00	14.00	264.10	4856.85	-108.61	-1062.77	1068.30	0.80	1068.31	264.17	
5092.00	14.30	264.30	4948.00	-110.93	-1085.63	1091.28	0.32	1091.29	264.17	
5187.00	13.80	263.40	5040.16	-113.40	-1108.56	1114.34	0.57	1114.35	264.16	
5281.00	12.60	261.30	5131.68	-116.24	-1129.84	1135.80	1.37	1135.80	264.13	
5376.00	11.00	260.70	5224.66	-119.27	-1149.02	1155.20	1.69	1155.20	264.07	
5470.00	9.00	263.90	5317.23	-121.50	-1165.19	1171.50	2.21	1171.50	264.05	
5565.00	7.40	262.50	5411.26	-123.09	-1178.64	1185.05	1.70	1185.05	264.04	
5659.00	5.50	262.70	5504.66	-124.45	-1189.11	1195.61	2.02	1195.61	264.03	
5754.00	4.00	267.90	5599.33	-125.15	-1196.94	1203.46	1.64	1203.46	264.03	
5848.00	2.80	260.00	5693.16	-125.67	-1202.48	1209.03	1.37	1209.03	264.03	
5943.00	1.50	231.80	5788.10	-126.84	-1205.74	1212.39	1.73	1212.39	263.99	
6433.00	0.75	235.00	6278.00	-132.65	-1213.41	1220.63	0.15	1220.64	263.76	
8130.00	1.25	220.00	7974.74	-153.20	-1234.40	1243.65	0.03	1243.87	262.93	
8172.00	1.25	220.00	8016.73	-153.90	-1234.99	1244.31	0.00	1244.54	262.90	TD (Projected)

**Division of Oil, Gas and Mining**  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**7/1/2007**

**FROM: (Old Operator):**

N1095-Dominion Exploration & Production, Inc  
 14000 Quail Springs Parkway, Suite 600  
 Oklahoma City, OK 73134

Phone: 1 (405) 749-1300

**TO: ( New Operator):**

N2615-XTO Energy Inc  
 810 Houston St  
 Fort Worth, TX 76102

Phone: 1 (817) 870-2800

**CA No.**

**Unit:**

**HILL CREEK**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/6/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/6/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/6/2007
- a. Is the new operator registered in the State of Utah:                      Business Number: 5655506-0143
- b. If **NO**, the operator was contacted on:
- a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on:
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 9/27/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/27/2007
- Bond information entered in RBDMS on: 9/27/2007
- Fee/State wells attached to bond in RBDMS on: 9/27/2007
- Injection Projects to new operator in RBDMS on: 9/27/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: 9/27/2007

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000138
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 104312762
- b. The **FORMER** operator has requested a release of liability from their bond on: 1/23/2008

The Division sent response by letter on:                     

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:

**COMMENTS:**



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: XTO Energy Inc. <i>N2615</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 810 Houston Street CITY Fort Worth STATE TX ZIP 76102		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (817) 870-2800		8. WELL NAME and NUMBER: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		9. API NUMBER: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
COUNTY: Uintah		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective July 1, 2007, XTO Energy Inc. has purchased the wells listed on the attachment from:

Dominion Exploration & Production, Inc.  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

*N1095*

*James D. Abercrombie*  
James D. Abercrombie  
Sr. Vice President, General Manager - Western Business Unit  
*(405) 749-1300*

Please be advised that XTO Energy Inc. is considered to be the operator on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage is provided by Nationwide BLM Bond #104312750 and Department of Natural Resources Bond #104312762.

NAME (PLEASE PRINT) <u>Edwin S. Ryan, Jr.</u>	TITLE <u>Sr. Vice President - Land Administration</u>
SIGNATURE <i>Edwin S. Ryan, Jr.</i>	DATE <u>7/31/2007</u>

(This space for State use only)

APPROVED 9127107

*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

AUG 06 2007

DIV. OF OIL, GAS & MINING

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304731522	FEDERAL 1-29	SWNW	29	100S	200E	U-28203	12829	Federal	GW	P
4304731601	HILLCREEK FED 1-30	NWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304731675	HILL CREEK FED 1-27	SENW	27	100S	200E	U-29784	12829	Federal	GW	P
4304733671	HCU 1-28F	NENE	28	100S	200E	14-20-H62-4783	12829	Indian	GW	S
4304733672	HCU 1-29F	NENE	29	100S	200E	U-28203	12829	Federal	GW	P
4304733673	HCU 2-30F	NWNE	30	100S	200E	UTU-29784	12829	Federal	GW	P
4304733688	HCU 3-28F	NENW	28	100S	200E	U-28203	12829	Federal	GW	P
4304733689	HCU 3-29F	NENW	29	100S	200E	U-28203	12829	Federal	GW	P
4304733713	HCU 3-30F	NWNW	30	100S	200E	UTU-30693	12829	Federal	GW	P
4304733835	HCU 5-30F	SWNW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733836	HCU 6-30F	SENW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733964	HCU 8-30F	SENE	30	100S	200E	UTU-29784	12829	Federal	GW	P
4304733965	HCU 11-30F	NESW	30	100S	200E	U-30693	12829	Federal	GW	P
4304733966	HCU 13-30F	SWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304734045	HCU 5-28F	SWNW	28	100S	200E	U-28203	12829	Federal	GW	P
4304734046	HCU 7-29F	SWNE	29	100S	200E	U-28203	12829	Federal	GW	P
4304734223	HCU 9-29F	NESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304734298	HCU 3-31F	NWNW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734299	HCU 5-31F	SWNW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734300	HCU 7-31F	SENW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734316	HCU 2-27F	NWNE	27	100S	200E	UTU-79130	12829	Federal	GW	P
4304734351	HCU 8-27F	SENE	27	100S	200E	UTU-79130	12829	Federal	GW	P
4304734352	HCU 11-31F	NWSW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734353	HCU 13-31F	SWSW	31	100S	200E	UTU-30693	12829	Federal	GW	P
4304734853	HCU 1-33F	NENE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304734854	HCU 3-34F	NENW	34	100S	200E	U-28203	12829	Federal	GW	P
4304734913	HCU 1-27F	NENE	27	100S	200E	U-79130	12829	Federal	GW	P
4304734914	HCU 3-27F	NENW	27	100S	200E	U-79130	12829	Federal	GW	P
4304734915	HCU 7-27F	SWNE	27	100S	200E	U-79130	12829	Federal	GW	S
4304734916	HCU 10-27F	NWSE	27	100S	200E	U-79130	12829	Federal	GW	P
4304734917	HCU 14-30F	SWSW	30	100S	200E	U-30693	12829	Federal	GW	P
4304734918	HCU 15-30F	SWSE	30	100S	200E	U-29784	12829	Federal	GW	P
4304734919	HCU 2-31F	NWNE	31	100S	200E	U-30693	12829	Federal	GW	P
4304734920	HCU 6-31F	SWNW	31	100S	200E	U-30693	12829	Federal	GW	P
4304734921	HCU 4-31F	NWNW	31	100S	200E	U-30693	12829	Federal	GW	P
4304735130	HCU 11-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	P
4304735131	HCU 2-29F	NWNE	29	100S	200E	U-28203	12829	Federal	GW	P
4304735132	HCU 9-30F	NESE	30	100S	200E	U-29784	12829	Federal	GW	P
4304735133	HCU 10-30F	NWSE	30	100S	200E	U-29784	12829	Federal	GW	P
4304735134	HCU 1-31F	NENE	31	100S	200E	U-36903	12829	Federal	GW	P
4304735135	HCU 12-31F	NWSW	31	100S	200E	U-30693	12829	Federal	GW	P
4304735137	HCU 2-33F	NENE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735139	HCU 5-34F	NENW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735154	HCU 13-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	P
4304735230	HCU 8-33F	SENE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304735307	HCU 6-29F	SENW	29	100S	200E	U-28203	12829	Federal	GW	P
4304735470	HCU 11-29F	NESW	29	100S	200E	U-28203	12829	Federal	GW	P
4304735471	HCU 10-29F	NWSE	29	100S	200E	U-28203	12829	Federal	GW	P

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304735507	HCU 12-29FA	NESW	29	100S	200E	U-28203	12829	Federal	GW	DRL
4304735724	HCU 16-27F	SESE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735725	HCU 9-27F	NESE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735726	HCU 15-27F	SWSE	27	100S	200E	U-79130	12829	Federal	GW	P
4304735727	HCU 9-34F	NESE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735728	HCU 7-34F	SWNE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735832	HCU 9-33F	NESE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735833	HCU 16-33F	SESE	33	100S	200E	U-28203	12829	Federal	GW	P
4304735835	HCU 11-34F	NESW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735836	HCU 12-34F	NWSW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735837	HCU 13-34F	SWSW	34	100S	200E	U-28203	12829	Federal	GW	P
4304735838	HCU 15-34F	SWSE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735875	HCU 14-34F	SWSE	34	100S	200E	U-79130	12829	Federal	GW	P
4304735934	HCU 8-31F	SENE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735935	HCU 10-31F	NWSE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735936	HCU 9-31F	NWSE	31	100S	200E	U-30693	12829	Federal	GW	P
4304735939	HCU 16-28F	SESE	28	100S	200E	U-28203	12829	Federal	GW	P
4304735940	HCU 6-34F	SENE	34	100S	200E	U-28203	12829	Federal	GW	P
4304735996	HCU 16-34F	SESE	34	100S	200E	U-79130	12829	Federal	GW	P
4304736046	HCU 14-31F	SWSW	31	100S	200E	U-30693	12829	Federal	GW	P
4304736251	HCU 16-30F	NESE	30	100S	200E	U-29784	12829	Federal	GW	P
4304736319	HCU 10-28F	NWSE	28	100S	200E	U-28203	12829	Federal	GW	P
4304736320	HCU 13-28F	SWSW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736321	HCU 14-28F	SESW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736437	HCU 5-27F	SWNW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736438	HCU 4-27F	SWNW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736439	HCU 11-28F	NESW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736440	HCU 5-30F2	SWNW	30	100S	200E	U-30693	12829	Federal	GW	DRL
4304736601	HCU 5-33F	SWNW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736602	HCU 12-33F	NWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736603	HCU 6-28F	SENE	28	100S	200E	U-28203	12829	Federal	GW	S
4304736604	HCU 12-28F	NWSW	28	100S	200E	U-28203	12829	Federal	GW	P
4304736685	HCU 13-33F	SWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304736846	HCU 9-28F	NESE	28	100S	200E	14-20-H62-4781	12829	Indian	GW	P
4304736847	HCU 8-28F	SENE	28	100S	200E	14-20-H62-4783	12829	Indian	GW	P
4304736848	HCU 7-28F	SWNE	28	100S	200E	U-28203	12829	Federal	GW	P
4304736849	HCU 1-34F	NENE	34	100S	200E	U-79130	12829	Federal	GW	P
4304736852	HCU 14-27F	NESW	27	100S	200E	U-29784	12829	Federal	GW	DRL
4304736853	HCU 16-29F	SESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304737060	HCU 4-33F	NWNW	33	100S	200E	U-28203	12829	Federal	GW	P
4304737202	HCU 6-33F	SENE	33	100S	200E	U-28203	12829	Federal	GW	P
4304737203	HCU 3-33F	NWNE	33	100S	200E	U-28203	12829	Federal	OW	P
4304737204	HCU 15-28F	NWNE	33	100S	200E	14-20-H62-4781	12829	Indian	OW	P
4304737284	HCU 7-30F	SENE	30	100S	200E	U-29784	99999	Federal	OW	DRL
4304737340	HCU 5-29F	SWNW	29	100S	200E	U-28203	12829	Federal	GW	P
4304737360	HCU 11-33F	NWSW	33	100S	200E	U-28203	12829	Federal	GW	P
4304737424	HCU 12-27F	NESW	27	100S	200E	U-29784	12829	Federal	OW	DRL
4304737425	HCU 14-29F	SWSW	29	100S	200E	U-28203	12829	Federal	GW	P

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304737426	HCU 13-29F	SWSW	29	100S	200E	U-28203	12829	Federal	GW	P
4304737427	HCU 8-29F	NESE	29	100S	200E	U-28203	12829	Federal	GW	P
4304737445	HCU 8-34F	SENE	34	100S	200E	U-79130	12829	Federal	OW	S
4304737446	HCU 2-34F	NWNE	34	100S	200E	U-79130	12829	Federal	OW	DRL
4304737447	HCU 7-33F	SENE	33	100S	200E	U-28203	12829	Federal	OW	DRL
4304737570	HCU 10-33F	NWSE	33	100S	200E	14-20-H62-4782	12829	Indian	GW	P
4304737749	HCU 4-28F	NENW	28	100S	200E	U-28203	99999	Federal	GW	DRL
4304737750	HCU 14-33F	SWSE	33	100S	200E	U-028203	12829	Federal	GW	DRL
4304731560	HILL CREEK ST 1-32	SENE	32	100S	200E	ML-22313	12829	State	GW	P
4304734852	HCU 4-32F	NWNW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735136	HCU 5-32F	SWNW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735870	HCU 13-32F	NESE	31	100S	200E	ML-22313-2		State	GW	LA
4304735871	HCU 12-32F	NESE	31	100S	200E	ML-22313-2		State	GW	LA
4304735872	HCU 14-32F	SESW	32	100S	200E	ML-22313-2	12829	State	GW	P
4304735873	HCU 3-32F	NENW	32	100S	200E	ML-22313-2	12829	State	GW	DRL
4304735874	HCU 11-32F	SENE	32	100S	200E	ML-22313-2	12829	State	D	PA
4304736322	HCU 16-32F	SESE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736323	HCU 9-32F	NESE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736324	HCU 8-32F	SENE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736441	HCU 1-32F2	NENE	32	100S	200E	ML-22313-2	12829	State	GW	P
4304736684	HCU 7-32F	SENE	32	100S	200E	ML-22313-2	12829	State	GW	P



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

Dominion Exploration & Production, Inc.  
Attn: James D. Abercrombie  
14000 Quail Springs Parkway, #600  
Oklahoma City, OK 73134-2600

August 10, 2007

Re: Hill Creek Unit  
Uintah County, Utah

Gentlemen:

On August 8, 2007, we received an indenture dated June 30, 2007, whereby Dominion Exploration & Production, Inc. resigned as Unit Operator and XTO Energy Inc. was designated as Successor Unit Operator for the Hill Creek Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 15, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Hill Creek Unit Agreement.

Your statewide oil and gas Bond No. UTB000138 will be used to cover all operations within the River Bend Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

Enclosure

RECEIVED

AUG 16 2007

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-79130			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b> HILL CREEK			
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>8. WELL NAME and NUMBER:</b> HCU 14-34F			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0829 FSL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 34 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047358750000			
<b>PHONE NUMBER:</b> 505 333-3159 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/19/2010  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: CLEANOUT         </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: CLEANOUT
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: CLEANOUT			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> XTO Energy Inc. has cleaned out this well per the attached summary report.					
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> February 24, 2010					
<b>NAME (PLEASE PRINT)</b> Barbara Nicol		<b>PHONE NUMBER</b> 505 333-3642			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Compliance Tech			
<b>DATE</b> 2/22/2010					

## EXECUTIVE SUMMARY REPORT

1/1/2010 - 2/22/2010  
Report run on 2/22/2010 at 2:24 PM

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### Hill Creek Unit 14-34F

Section 34-10S-20E, Uintah, Utah, Roosevelt

2/15/2010 First rpt for Well Maintenance /Clean out. MIRU Key Energy rig #6013. Bd well. ND WH. NU BOP. Unable to unlnd hngr. PU Hyd jarsw/ Acc sub, Wkd jars jarred hngr free (1 hit). LD hngr. TIH w/ 6 jt's 2.375'', 4.7#, N-80 eue tbg. No tg. TOH w/200 jts 2.375'', 4.7#, N-80 EUE tbg. LD 40jt's 2-3/8'', N-80, 4.7#, eue tbg due to BAD EXT corrosion. SN & BRS. TIH w/4.75'' bit, 5.5'' csg scr & 145 jts 2-3/8'' tbg. EOT @ 4500'. SWI & SDFWE. NOTE: Tbg EOT @ 7600' +/- Not 8029' as reported.

2/16/2010 ===== Hill Creek Unit 14-34F =====  
Bd well. Contd TIH w/4.75'' bit, 5.5'' csg scr & 253 ttl jts tbg. Tgd 121' fill @ 8050'. RU pwr swivel & AFU. Estab circion & CO to BRS @ 8115', PBTD @ 8171'. TOH w/257 jts tbg. LD bit & scr. TIH w/mule shoe col, 2-3/8" SN & 100 jts 2-3/8'', 4.7#, L-80, EUE tbg. SWI & SDFN.

2/17/2010 ===== Hill Creek Unit 14-34F =====  
Contd TIH w/mule shoe col, 2-3/8" SN & 250 ttl jts 2-3/8'', 4.7#, L-80, EUE tbg. Ld on hgr, EOT @ 7987. SN @ 7986'. WA/MV perfs fr/6207 - 8086'. RU & RIH w/1.91 tbg broach to SN @ 7986'. No ti spots. POH & LD broach. Pmp 10 bls TFW, dropd SV. Fill & PT tbg w/17 bbls to 2000 psig, 30", tstd gd. Rlstd press. RU & RIH w/on-off tls. Made 3 runs & retrv SV. POH & LD SV & tls. SWI & SDFN.

2/18/2010 ===== Hill Creek Unit 14-34F =====  
EOT @ 7987'. SN @ 7986'. WA/MV perfs fr/6207 - 8086'. RU & RIH w/swb tls. BFL @ 5,400' FS. S. 0 BO, 10 BLW, 3 runs, 2 hrs. KO well flwg to tst tnk. F. 15 BLW. 1.5 hrs. FTP 250 - 0 psig. SICP 650 - 400 psig. Well died. Dropd BHBS w/SV. RIH w/sbs & seat BHBS @ 7986'. POH w/sd ln. RU & RIH w/swb tls. BFL @ 6,600' FS. S. 0 BO, 2 BLW, 1 run. KO well flwg to tst tnk. F. 8 BLW. 1.5 hrs. FTP 50 - 0 psig. SICP 400-350 psig. Well died. SWIFPBU & SDFN.

2/19/2010 ===== Hill Creek Unit 14-34F =====  
OWU & Bd tbg. KO well flwg to test tnk 1 hr, recd 5 BLW. Cycle plngr 2x's to surf. RDMO Key Energy #6013. RWTP @ 10:00 a.m. Turn well over to prod. dept, begin tst data.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-79130
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>7. UNIT or CA AGREEMENT NAME:</b> HILL CREEK
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>8. WELL NAME and NUMBER:</b> HCU 14-34F
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0829 FSL 1958 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 34 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047358750000
<b>PHONE NUMBER:</b> 505 333-3145 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/4/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <span style="border: 1px solid black; padding: 2px;">CHEMICAL TREATMENT</span>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. has acidized & performed a chemical treatment on this well per the attached summary report.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> June 01, 2012		
<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/1/2012	



### **Hill Creek Unit 14-34F**

**4/25/2012:** MIRU Nalco. Pump 5 gal of EC9573A (mutual solvent), 5 gal of EC6652A (scale Inhibitor) & 130 gal of 10% HCL with 130 gal of fresh water down the tbg. Displace tbg with 35 bbls of 2% KCL. Pump 5 gal of EC9573A (mutual solvent), 5 gal of EC6652A (scale inhibitor) & 130 gal of 10% HCL with 130 gal of fresh water down the CSG. Displace CSG with 95 bbls of 2% KCL. SWI for 12 hrs. RDMO Nalco.

**4/26/2012:** MIRU SWU. BD tbg to prod tk. RU swb tls & RIH. Swab.

**4/27/2012:** RU swb tls & RIH. Swab.

**4/30/2012:** RU swb tls & RIH. Swab.

**5/1/2012:** RU swb tls & RIH. Swab. Drop dual pad plngr & SWI for 1 hr.

**5/2/2012:** RU swb tls & RIH. Swab.

**5/3/2012:** RU swb tls & RIH. Swab.

**5/4/2012:** RU swb tls & RIH. Swab. Drop dual pad plngr. Cycld plngr to surf & RWTP. RDMO SWU.

=====Hill Creek Unit 14-34F=====